



Full wwPDB NMR Structure Validation Report ⓘ

Jun 4, 2023 – 10:52 PM EDT

PDB ID : 2LQ4
BMRB ID : 17993
Title : Structural Characterization of an LPA1 Second Extracellular Loop Mimetic with a Self-Assembling Coiled-Coil Folding Constraint
Authors : Young, J.K.
Deposited on : 2012-02-23

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

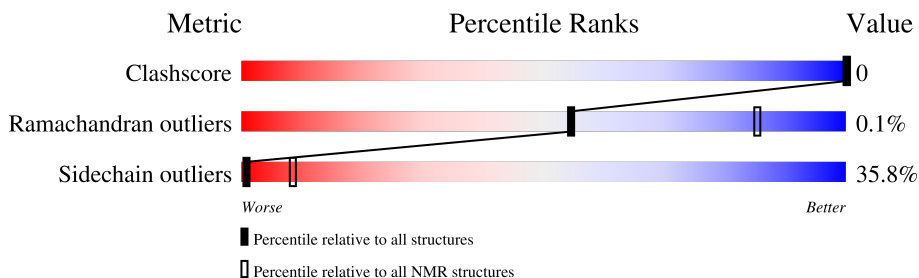
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 80%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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

Mol	Chain	Length	Quality of chain
1	p	80	 50% 21% 29%

2 Ensemble composition and analysis i

This entry contains 36 models. Model 27 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	p:3-p:29, p:51-p:80 (57)	0.80	27

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 4 single-model clusters were found.

Cluster number	Models
1	2, 7, 11, 14, 17, 18, 19, 21, 22, 23, 26, 27, 28, 31, 34
2	3, 24, 30, 33
3	5, 9, 12, 35
4	1, 8, 15
5	4, 16
6	10, 36
7	25, 29
Single-model clusters	6; 13; 20; 32

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1339 atoms, of which 687 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Lysophosphatidic acid receptor 1.

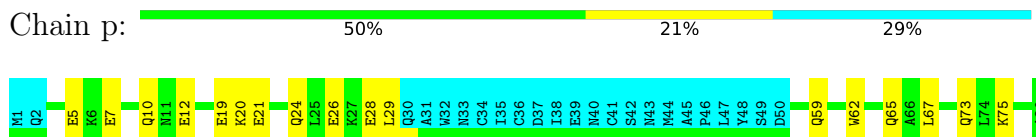
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	p	80	1339	414	687	112	121	5	0

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Lysophosphatidic acid receptor 1

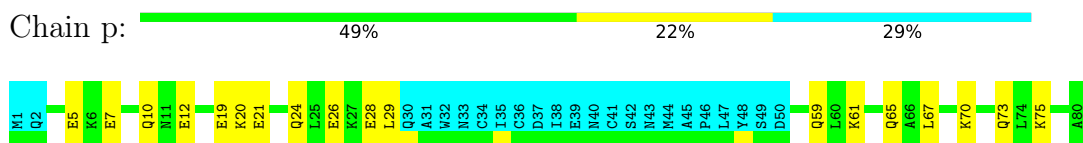


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

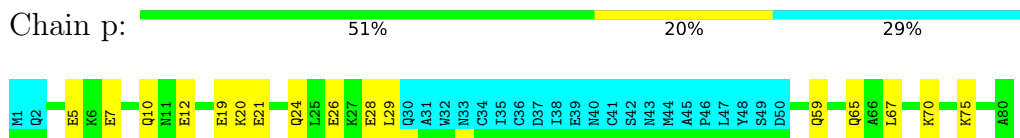
4.2.1 Score per residue for model 1

- Molecule 1: Lysophosphatidic acid receptor 1



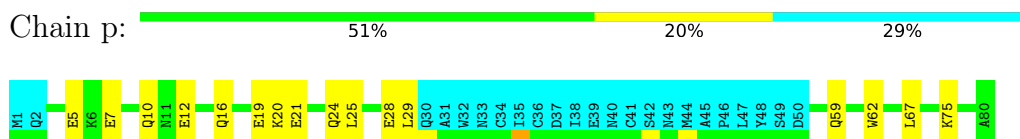
4.2.2 Score per residue for model 2

- Molecule 1: Lysophosphatidic acid receptor 1



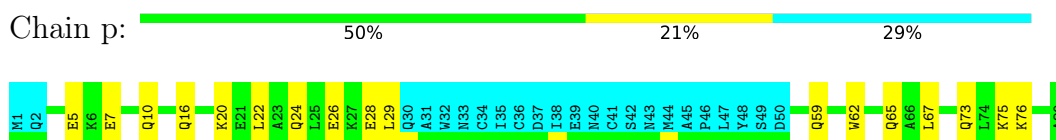
4.2.3 Score per residue for model 3

- Molecule 1: Lysophosphatidic acid receptor 1



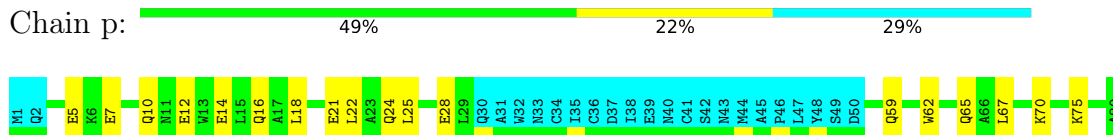
4.2.4 Score per residue for model 4

- Molecule 1: Lysophosphatidic acid receptor 1



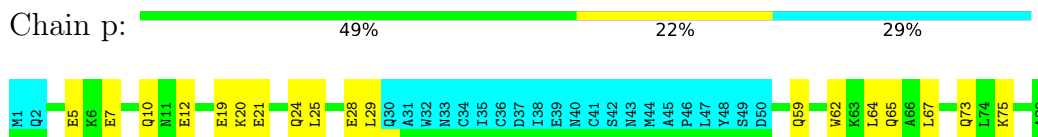
4.2.5 Score per residue for model 5

- Molecule 1: Lysophosphatidic acid receptor 1



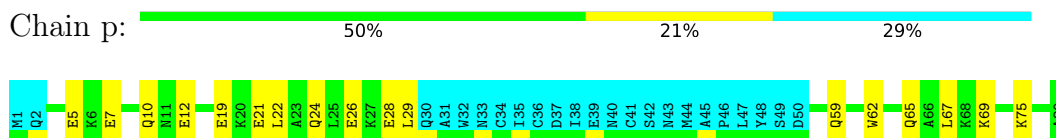
4.2.6 Score per residue for model 6

- Molecule 1: Lysophosphatidic acid receptor 1



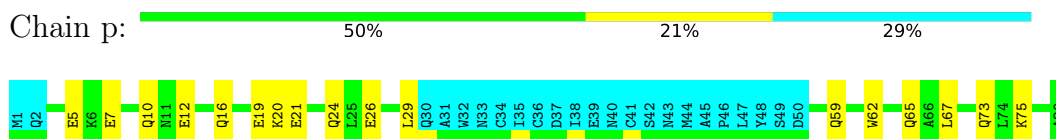
4.2.7 Score per residue for model 7

- Molecule 1: Lysophosphatidic acid receptor 1



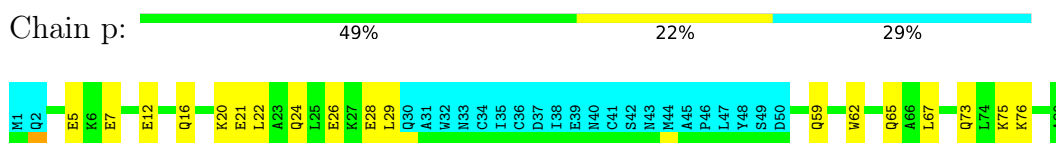
4.2.8 Score per residue for model 8

- Molecule 1: Lysophosphatidic acid receptor 1



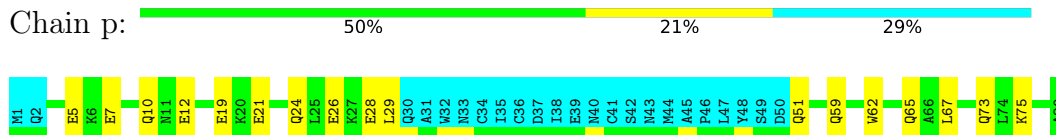
4.2.9 Score per residue for model 9

- Molecule 1: Lysophosphatidic acid receptor 1



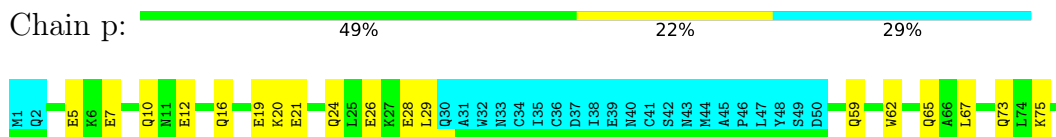
4.2.10 Score per residue for model 10

- Molecule 1: Lysophosphatidic acid receptor 1



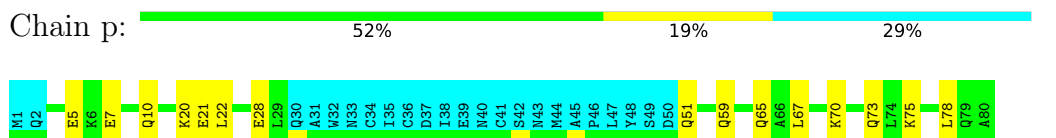
4.2.11 Score per residue for model 11

- Molecule 1: Lysophosphatidic acid receptor 1



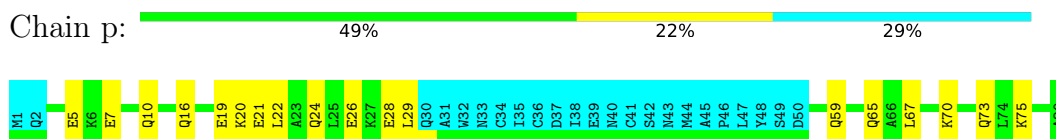
4.2.12 Score per residue for model 12

- Molecule 1: Lysophosphatidic acid receptor 1



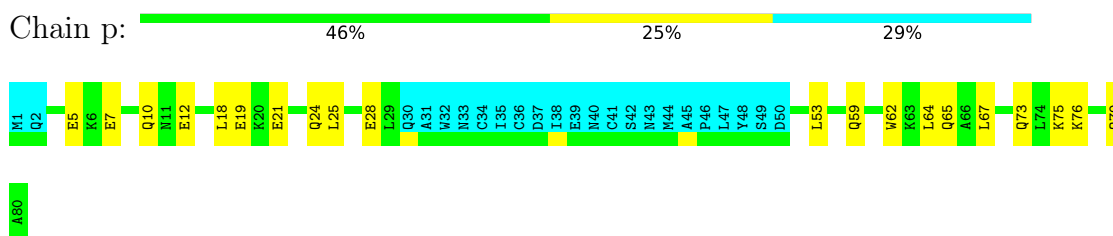
4.2.13 Score per residue for model 13

- Molecule 1: Lysophosphatidic acid receptor 1



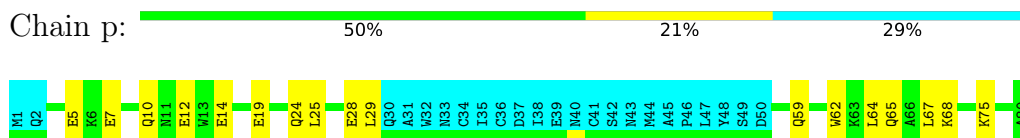
4.2.14 Score per residue for model 14

- Molecule 1: Lysophosphatidic acid receptor 1



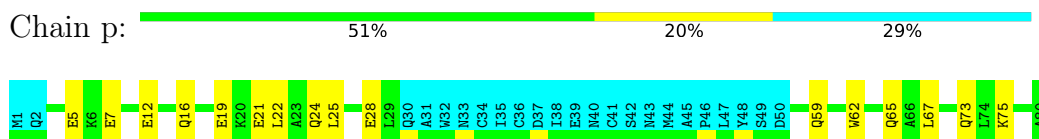
4.2.15 Score per residue for model 15

- Molecule 1: Lysophosphatidic acid receptor 1



4.2.16 Score per residue for model 16

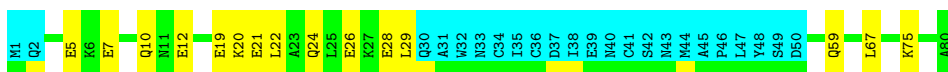
- Molecule 1: Lysophosphatidic acid receptor 1



4.2.17 Score per residue for model 17

- Molecule 1: Lysophosphatidic acid receptor 1





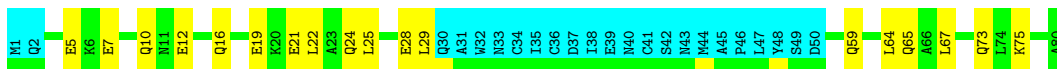
4.2.18 Score per residue for model 18

- Molecule 1: Lysophosphatidic acid receptor 1



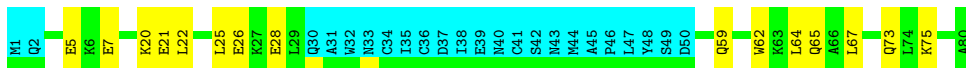
4.2.19 Score per residue for model 19

- Molecule 1: Lysophosphatidic acid receptor 1



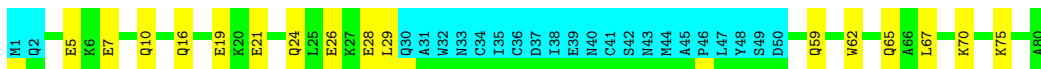
4.2.20 Score per residue for model 20

- Molecule 1: Lysophosphatidic acid receptor 1



4.2.21 Score per residue for model 21

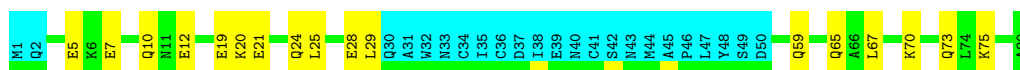
- Molecule 1: Lysophosphatidic acid receptor 1



4.2.22 Score per residue for model 22

- Molecule 1: Lysophosphatidic acid receptor 1

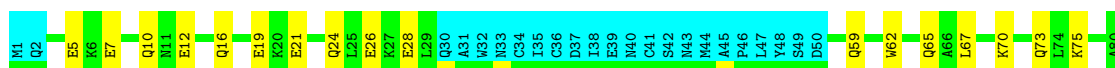
Chain p:  50% 21% 29%



4.2.23 Score per residue for model 23

- Molecule 1: Lysophosphatidic acid receptor 1

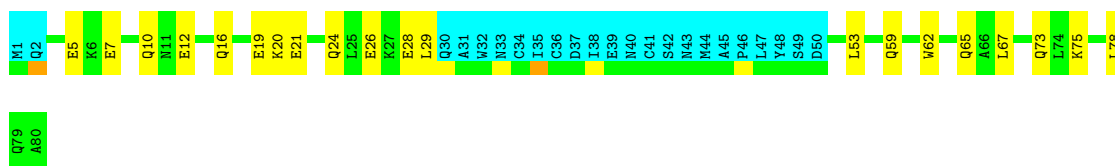
Chain p:  50% 21% 29%



4.2.24 Score per residue for model 24

- Molecule 1: Lysophosphatidic acid receptor 1

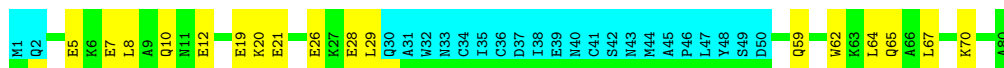
Chain p:  46% 25% 29%



4.2.25 Score per residue for model 25

- Molecule 1: Lysophosphatidic acid receptor 1

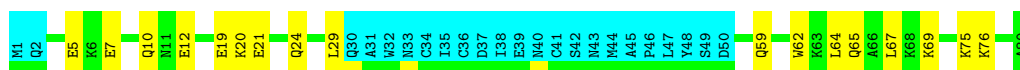
Chain p:  50% 21% 29%



4.2.26 Score per residue for model 26

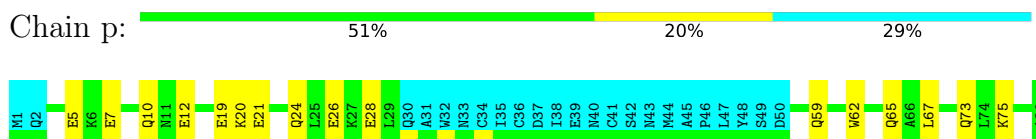
- Molecule 1: Lysophosphatidic acid receptor 1

Chain p:  50% 21% 29%



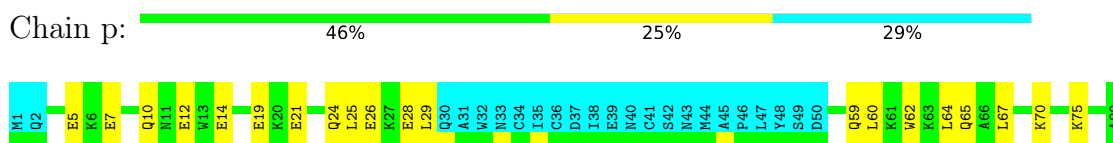
4.2.27 Score per residue for model 27 (medoid)

- Molecule 1: Lysophosphatidic acid receptor 1



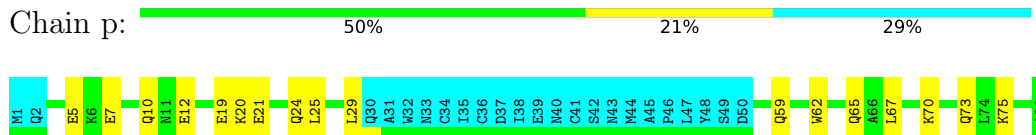
4.2.28 Score per residue for model 28

- Molecule 1: Lysophosphatidic acid receptor 1



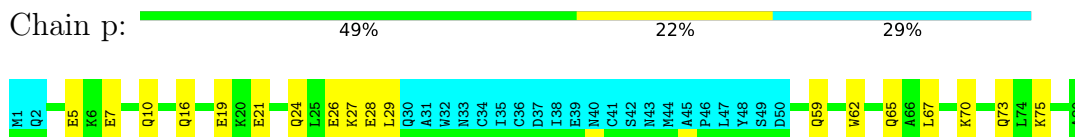
4.2.29 Score per residue for model 29

- Molecule 1: Lysophosphatidic acid receptor 1



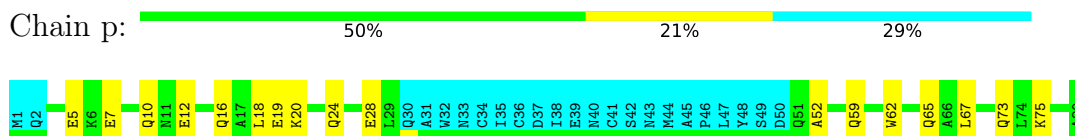
4.2.30 Score per residue for model 30

- Molecule 1: Lysophosphatidic acid receptor 1



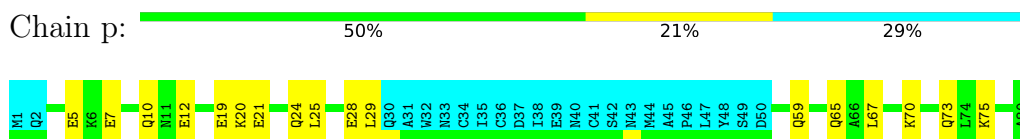
4.2.31 Score per residue for model 31

- Molecule 1: Lysophosphatidic acid receptor 1



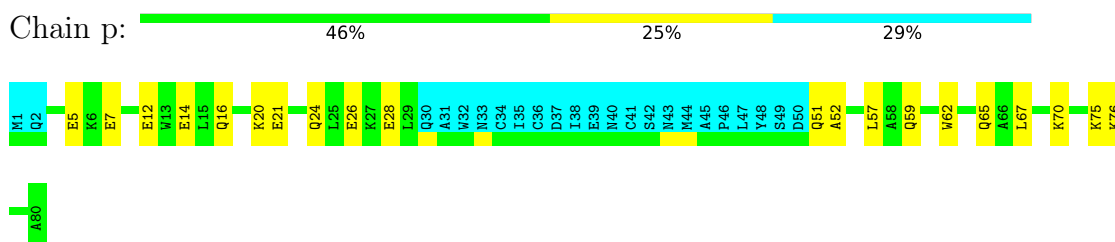
4.2.32 Score per residue for model 32

- Molecule 1: Lysophosphatidic acid receptor 1



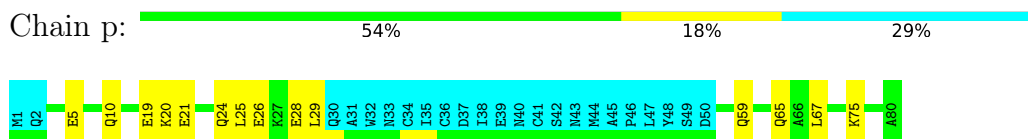
4.2.33 Score per residue for model 33

- Molecule 1: Lysophosphatidic acid receptor 1



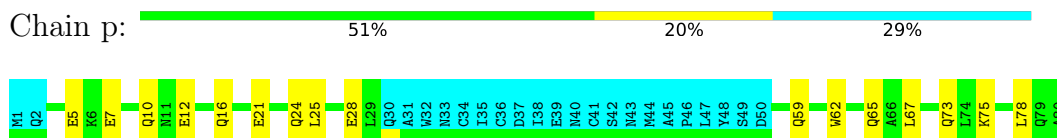
4.2.34 Score per residue for model 34

- Molecule 1: Lysophosphatidic acid receptor 1



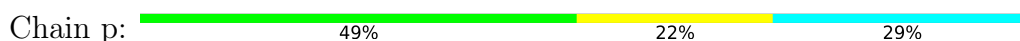
4.2.35 Score per residue for model 35

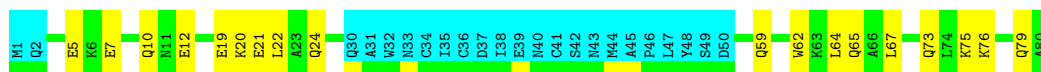
- Molecule 1: Lysophosphatidic acid receptor 1



4.2.36 Score per residue for model 36

- Molecule 1: Lysophosphatidic acid receptor 1





5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 36 were deposited, based on the following criterion: *all calculated structures submitted*.

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

Software name	Classification	Version
CNS	geometry optimization	
CNS	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	913
Number of shifts mapped to atoms	913
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	80%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
All	All	16992	18900	18900	-

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	p	56/80 (70%)	54±1 (97±1%)	2±1 (3±1%)	0±0 (0±0%)	54 85
All	All	2016/2880 (70%)	1959 (97%)	55 (3%)	2 (0%)	54 85

All 1 unique Ramachandran outliers are listed below.

Mol	Chain	Res	Type	Models (Total)
1	p	52	ALA	2

6.3.2 Protein sidechains [i](#)

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	p	48/69 (70%)	31±1 (64±3%)	17±1 (36±3%)	1 8
All	All	1728/2484 (70%)	1110 (64%)	618 (36%)	1 8

All 36 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	p	5	GLU	36
1	p	59	GLN	36
1	p	67	LEU	36
1	p	7	GLU	35
1	p	75	LYS	35
1	p	65	GLN	34
1	p	21	GLU	33
1	p	24	GLN	33
1	p	10	GLN	32
1	p	28	GLU	32
1	p	12	GLU	29
1	p	19	GLU	29
1	p	62	TRP	27
1	p	29	LEU	25
1	p	20	LYS	24
1	p	73	GLN	24
1	p	26	GLU	21
1	p	16	GLN	16
1	p	70	LYS	15
1	p	25	LEU	14
1	p	22	LEU	12
1	p	64	LEU	9
1	p	76	LYS	6
1	p	14	GLU	4
1	p	18	LEU	3

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Mol	Chain	Res	Type	Models (Total)
1	p	51	GLN	3
1	p	78	LEU	3
1	p	69	LYS	2
1	p	53	LEU	2
1	p	79	GLN	2
1	p	61	LYS	1
1	p	68	LYS	1
1	p	8	LEU	1
1	p	60	LEU	1
1	p	27	LYS	1
1	p	57	LEU	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 monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 80% for the well-defined parts and 79% 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 [i](#)

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

Total number of shifts	913
Number of shifts mapped to atoms	913
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	80	-0.81 ± 0.11	Should be checked
$^{13}\text{C}_\beta$	80	0.09 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}'$	80	-0.57 ± 0.06	Should be applied
^{15}N	77	-0.69 ± 0.26	Should be applied

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 80%, i.e. 692 atoms were assigned a chemical shift out of a possible 865. 0 out of 14 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	284/285 (100%)	114/114 (100%)	114/114 (100%)	56/57 (98%)
Sidechain	408/556 (73%)	258/357 (72%)	149/175 (85%)	1/24 (4%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	0/24 (0%)	0/12 (0%)	0/10 (0%)	0/2 (0%)
Overall	692/865 (80%)	372/483 (77%)	263/299 (88%)	57/83 (69%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 79%, i.e. 913 atoms were assigned a chemical shift out of a possible 1152. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	395/398 (99%)	158/159 (99%)	160/160 (100%)	77/79 (97%)
Sidechain	518/709 (73%)	329/456 (72%)	188/224 (84%)	1/29 (3%)
Aromatic	0/45 (0%)	0/22 (0%)	0/20 (0%)	0/3 (0%)
Overall	913/1152 (79%)	487/637 (76%)	348/404 (86%)	78/111 (70%)

7.1.4 Statistically unusual chemical shifts [i](#)

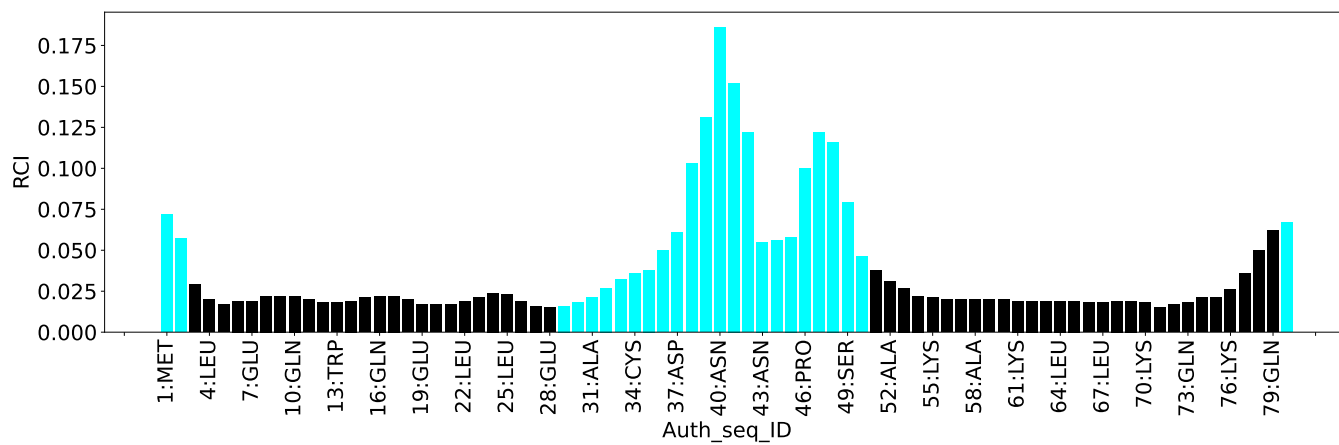
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	p	46	PRO	CD	42.72	45.11 – 55.58	-7.3

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 p:



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	757
Intra-residue ($ i-j =0$)	273
Sequential ($ i-j =1$)	280
Medium range ($ i-j >1$ and $ i-j <5$)	146
Long range ($ i-j \geq 5$)	12
Inter-chain	0
Hydrogen bond restraints	46
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	9.5
Number of long range restraints per residue ¹	0.1

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)	64.1	0.2
0.2-0.5 (Medium)	57.9	0.5
>0.5 (Large)	5.0	0.92

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

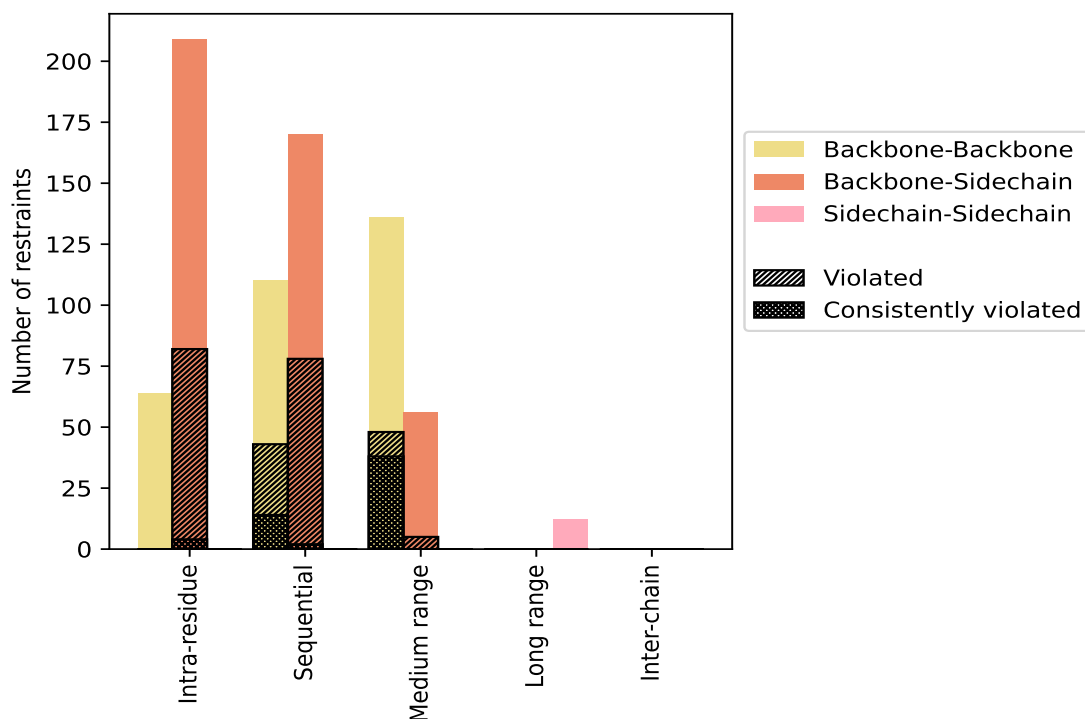
9.1 Summary of distance violations

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 ($i-j =0$)	273	36.1	82	30.0	10.8	4	1.5	0.5
Backbone-Backbone	64	8.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	209	27.6	82	39.2	10.8	4	1.9	0.5
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	280	37.0	121	43.2	16.0	16	5.7	2.1
Backbone-Backbone	110	14.5	43	39.1	5.7	14	12.7	1.8
Backbone-Sidechain	170	22.5	78	45.9	10.3	2	1.2	0.3
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	146	19.3	47	32.2	6.2	38	26.0	5.0
Backbone-Backbone	90	11.9	42	46.7	5.5	38	42.2	5.0
Backbone-Sidechain	56	7.4	5	8.9	0.7	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Long range ($i-j \geq 5$)	12	1.6	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	12	1.6	0	0.0	0.0	0	0.0	0.0
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	46	6.1	6	13.0	0.8	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	757	100.0	256	33.8	33.8	58	7.7	7.7
Backbone-Backbone	310	41.0	91	29.4	12.0	52	16.8	6.9
Backbone-Sidechain	435	57.5	165	37.9	21.8	6	1.4	0.8
Sidechain-Sidechain	12	1.6	0	0.0	0.0	0	0.0	0.0

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

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



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

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

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

Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
1	32	57	43	0	0	132	0.25	0.87	0.14	0.2
2	28	51	42	0	0	121	0.25	0.67	0.13	0.2
3	31	52	41	0	0	124	0.25	0.71	0.13	0.21
4	31	60	41	0	0	132	0.24	0.63	0.13	0.2
5	32	55	41	0	0	128	0.25	0.67	0.14	0.2
6	32	52	41	0	0	125	0.25	0.92	0.14	0.2
7	36	53	41	0	0	130	0.25	0.74	0.13	0.2
8	35	58	40	0	0	133	0.24	0.69	0.13	0.2
9	35	57	40	0	0	132	0.25	0.75	0.14	0.2
10	36	53	41	0	0	130	0.25	0.86	0.13	0.2
11	31	51	41	0	0	123	0.25	0.66	0.13	0.2

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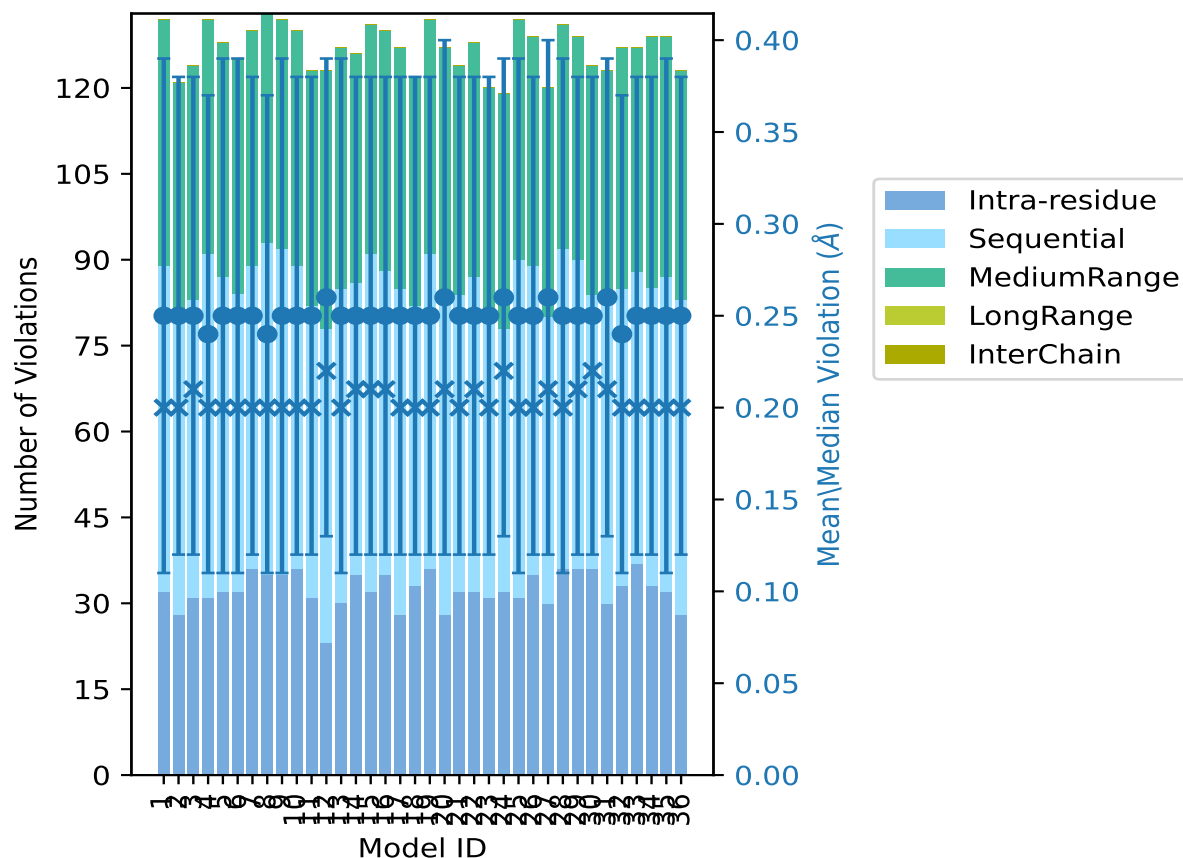
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
12	23	55	45	0	0	123	0.26	0.67	0.13	0.22
13	30	55	42	0	0	127	0.25	0.87	0.14	0.2
14	35	51	40	0	0	126	0.25	0.68	0.13	0.21
15	32	59	40	0	0	131	0.25	0.8	0.13	0.21
16	35	53	42	0	0	130	0.25	0.66	0.13	0.21
17	28	57	42	0	0	127	0.25	0.73	0.13	0.2
18	33	49	40	0	0	122	0.25	0.71	0.13	0.2
19	36	55	41	0	0	132	0.25	0.74	0.13	0.2
20	28	56	43	0	0	127	0.26	0.7	0.14	0.21
21	32	52	40	0	0	124	0.25	0.73	0.13	0.2
22	32	55	41	0	0	128	0.25	0.71	0.13	0.21
23	31	49	40	0	0	120	0.25	0.71	0.13	0.2
24	32	46	41	0	0	119	0.26	0.74	0.13	0.22
25	31	59	42	0	0	132	0.25	0.81	0.14	0.2
26	35	54	40	0	0	129	0.25	0.74	0.13	0.2
27	30	50	40	0	0	120	0.26	0.69	0.14	0.21
28	36	56	39	0	0	131	0.25	0.74	0.14	0.2
29	36	54	39	0	0	129	0.25	0.73	0.13	0.21
30	36	48	40	0	0	124	0.25	0.88	0.13	0.22
31	30	53	40	0	0	123	0.26	0.72	0.13	0.21
32	33	52	42	0	0	127	0.24	0.74	0.13	0.2
33	37	51	39	0	0	127	0.25	0.71	0.13	0.2
34	33	52	44	0	0	129	0.25	0.67	0.13	0.2
35	32	55	42	0	0	129	0.25	0.76	0.14	0.2
36	28	55	40	0	0	123	0.25	0.61	0.13	0.2

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, 461(IR:191, SQ:159, MR:99, LR:12, 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	%
9	13	2	0	0	24	1	2.8
8	6	1	0	0	15	2	5.6
6	10	0	0	0	16	3	8.3
6	7	0	0	0	13	4	11.1
4	3	2	0	0	9	5	13.9
4	4	1	0	0	9	6	16.7

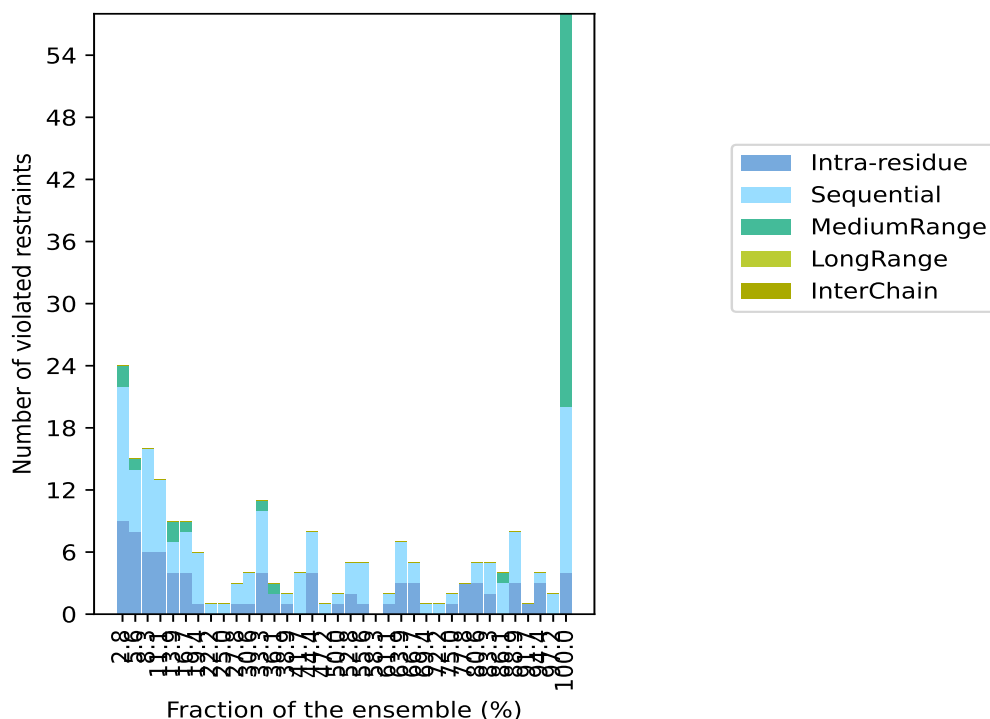
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
1	5	0	0	0	6	7	19.4
0	1	0	0	0	1	8	22.2
0	1	0	0	0	1	9	25.0
1	2	0	0	0	3	10	27.8
1	3	0	0	0	4	11	30.6
4	6	1	0	0	11	12	33.3
2	0	1	0	0	3	13	36.1
1	1	0	0	0	2	14	38.9
0	4	0	0	0	4	15	41.7
4	4	0	0	0	8	16	44.4
0	1	0	0	0	1	17	47.2
1	1	0	0	0	2	18	50.0
2	3	0	0	0	5	19	52.8
1	4	0	0	0	5	20	55.6
0	0	0	0	0	0	21	58.3
1	1	0	0	0	2	22	61.1
3	4	0	0	0	7	23	63.9
3	2	0	0	0	5	24	66.7
0	1	0	0	0	1	25	69.4
0	1	0	0	0	1	26	72.2
1	1	0	0	0	2	27	75.0
3	0	0	0	0	3	28	77.8
3	2	0	0	0	5	29	80.6
2	3	0	0	0	5	30	83.3
0	3	1	0	0	4	31	86.1
3	5	0	0	0	8	32	88.9
1	0	0	0	0	1	33	91.7
3	1	0	0	0	4	34	94.4
0	2	0	0	0	2	35	97.2
4	16	38	0	0	58	36	100.0

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

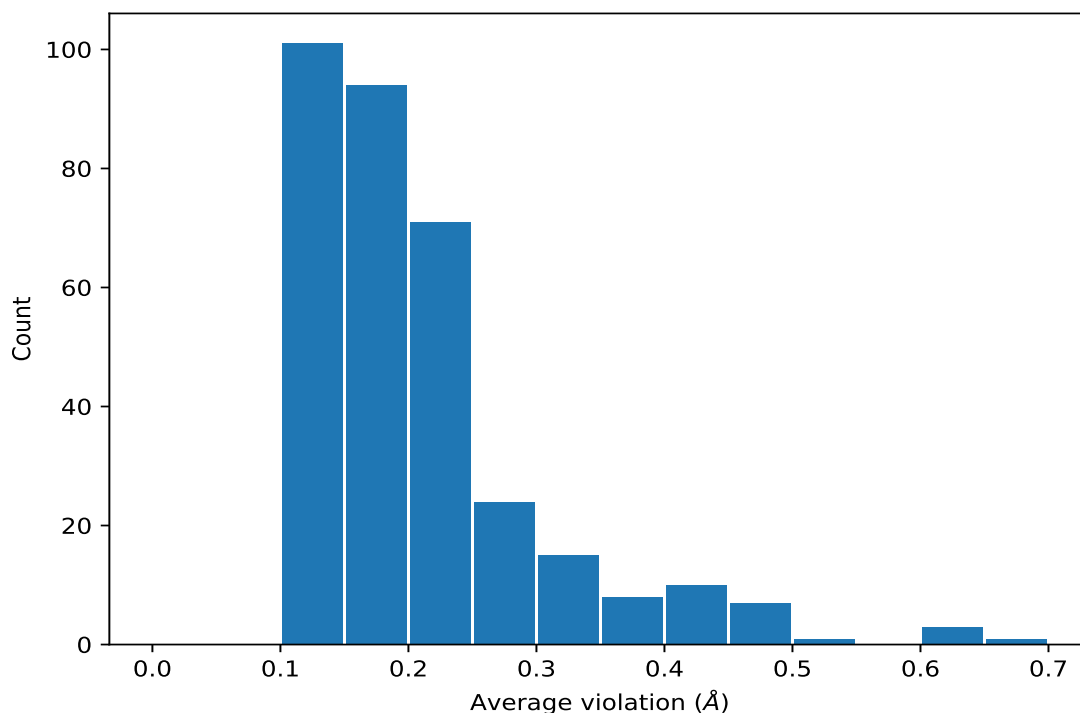
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	36	0.65	0.07	0.68
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	36	0.64	0.09	0.63
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	36	0.63	0.13	0.6
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	36	0.61	0.08	0.64
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	36	0.52	0.05	0.52
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	36	0.49	0.04	0.49
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	36	0.48	0.03	0.48
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	36	0.48	0.02	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	36	0.47	0.01	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	36	0.47	0.05	0.46
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	36	0.46	0.02	0.45
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	36	0.45	0.04	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	36	0.44	0.02	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	36	0.44	0.02	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	36	0.44	0.03	0.44
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	36	0.42	0.01	0.42

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	36	0.41	0.01	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	36	0.41	0.02	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	36	0.4	0.02	0.4
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	36	0.4	0.09	0.36
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	36	0.4	0.03	0.4
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	36	0.4	0.04	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	36	0.39	0.02	0.39
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	36	0.39	0.06	0.4
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	36	0.39	0.03	0.38
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	36	0.38	0.04	0.38
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	36	0.38	0.05	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	36	0.37	0.01	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	36	0.36	0.02	0.36
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	36	0.36	0.05	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	36	0.34	0.01	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	36	0.34	0.01	0.34
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	36	0.33	0.08	0.29
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	36	0.32	0.04	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	36	0.31	0.02	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	36	0.29	0.09	0.28
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	36	0.29	0.09	0.28
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	36	0.29	0.09	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	36	0.26	0.02	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	36	0.25	0.02	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	36	0.25	0.02	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	36	0.23	0.02	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	36	0.23	0.02	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	36	0.23	0.02	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	36	0.23	0.02	0.23
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	36	0.2	0.01	0.21
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	36	0.2	0.01	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	36	0.2	0.02	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	36	0.19	0.01	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	36	0.19	0.01	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	36	0.19	0.01	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	36	0.19	0.02	0.19
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	36	0.18	0.03	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	36	0.18	0.01	0.18
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	36	0.17	0.01	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	36	0.17	0.01	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	36	0.16	0.01	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	36	0.15	0.01	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	36	0.15	0.03	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	36	0.14	0.02	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	36	0.14	0.02	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	36	0.14	0.02	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	36	0.13	0.01	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	36	0.13	0.01	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	36	0.12	0.01	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	36	0.11	0.0	0.11
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	35	0.17	0.02	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	35	0.16	0.02	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	34	0.21	0.03	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	34	0.21	0.03	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	34	0.21	0.03	0.2
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	34	0.15	0.02	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	34	0.15	0.02	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	34	0.15	0.02	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	34	0.14	0.02	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	34	0.14	0.02	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	34	0.14	0.02	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	34	0.13	0.02	0.13
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	33	0.2	0.01	0.2
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	32	0.26	0.02	0.27
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	32	0.23	0.01	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	32	0.23	0.01	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	32	0.23	0.01	0.23
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	32	0.23	0.02	0.22
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	32	0.2	0.01	0.21
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	32	0.2	0.05	0.22
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	32	0.14	0.02	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	32	0.14	0.02	0.15
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	32	0.13	0.02	0.13
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	31	0.19	0.02	0.19
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	31	0.17	0.03	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	31	0.15	0.02	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	31	0.15	0.01	0.15
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	30	0.23	0.01	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	30	0.23	0.01	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	30	0.23	0.01	0.23
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	30	0.2	0.04	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	30	0.2	0.04	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	30	0.2	0.04	0.2
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	30	0.18	0.01	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	30	0.14	0.04	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	30	0.14	0.04	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	30	0.14	0.04	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	30	0.14	0.03	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	30	0.14	0.03	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	30	0.14	0.03	0.12
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	29	0.29	0.01	0.29
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	29	0.26	0.02	0.25
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	29	0.22	0.0	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	29	0.21	0.02	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	29	0.21	0.02	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	29	0.21	0.02	0.2
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	29	0.15	0.02	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	29	0.15	0.02	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	29	0.15	0.02	0.15
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	28	0.17	0.01	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	28	0.15	0.02	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	28	0.15	0.02	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	28	0.15	0.02	0.15
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	28	0.12	0.02	0.12
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	27	0.19	0.03	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	27	0.19	0.03	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	27	0.19	0.03	0.19
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	27	0.12	0.01	0.11
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	26	0.14	0.01	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	25	0.14	0.01	0.14
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	24	0.3	0.0	0.3
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	24	0.23	0.01	0.23
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	24	0.22	0.0	0.22
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	24	0.17	0.03	0.18
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	24	0.12	0.01	0.12
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	23	0.27	0.11	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	23	0.27	0.11	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	23	0.27	0.11	0.24
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	23	0.22	0.06	0.21
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	23	0.21	0.06	0.18
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	23	0.21	0.06	0.18
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	23	0.21	0.06	0.18
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	23	0.19	0.02	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	23	0.19	0.03	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	23	0.19	0.03	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	23	0.19	0.03	0.18

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	23	0.14	0.01	0.15
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	23	0.14	0.02	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	22	0.16	0.02	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	22	0.16	0.02	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	22	0.16	0.02	0.17
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	22	0.12	0.02	0.11
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	20	0.23	0.01	0.23
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	20	0.21	0.01	0.21
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	20	0.14	0.02	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	20	0.14	0.02	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	20	0.14	0.02	0.15
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	20	0.13	0.02	0.13
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	20	0.13	0.02	0.12
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	19	0.18	0.03	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	19	0.18	0.03	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	19	0.18	0.03	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	19	0.15	0.03	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	19	0.15	0.03	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	19	0.15	0.03	0.15
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	19	0.13	0.02	0.13
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	19	0.11	0.01	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	19	0.11	0.0	0.11
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	18	0.33	0.08	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	18	0.33	0.08	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	18	0.33	0.08	0.32
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	18	0.16	0.02	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	18	0.16	0.02	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	18	0.16	0.02	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	17	0.15	0.03	0.15
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	17	0.15	0.03	0.15
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	17	0.15	0.03	0.15
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	16	0.31	0.01	0.3
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	16	0.23	0.01	0.24
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	16	0.21	0.0	0.21
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	16	0.16	0.04	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	16	0.15	0.05	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	16	0.15	0.05	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	16	0.15	0.05	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	16	0.13	0.03	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	16	0.13	0.03	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	16	0.13	0.03	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	16	0.13	0.02	0.12

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	16	0.13	0.02	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	16	0.13	0.02	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	16	0.13	0.01	0.13
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	16	0.12	0.01	0.12
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	15	0.17	0.03	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	15	0.17	0.03	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	15	0.17	0.03	0.18
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	15	0.17	0.04	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	15	0.17	0.04	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	15	0.17	0.04	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	15	0.14	0.01	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	15	0.14	0.01	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	15	0.14	0.01	0.14
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	15	0.12	0.01	0.12
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	14	0.14	0.02	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	14	0.14	0.02	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	14	0.14	0.02	0.15
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	14	0.14	0.03	0.12
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	13	0.34	0.01	0.34
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	13	0.22	0.0	0.22
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	13	0.12	0.01	0.12
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	12	0.27	0.01	0.27
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	12	0.26	0.04	0.26
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	12	0.26	0.04	0.26
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	12	0.26	0.04	0.26
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	12	0.24	0.01	0.24
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	12	0.23	0.01	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	12	0.23	0.01	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	12	0.23	0.01	0.23
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	12	0.22	0.06	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	12	0.2	0.01	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	12	0.18	0.02	0.18
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	12	0.13	0.02	0.13
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	12	0.13	0.01	0.13
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	12	0.11	0.0	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	12	0.11	0.0	0.11
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	11	0.13	0.01	0.14
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	11	0.13	0.03	0.12
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	11	0.11	0.0	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	11	0.11	0.0	0.11
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	10	0.23	0.05	0.22
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	10	0.23	0.05	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	10	0.23	0.05	0.22
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	10	0.13	0.02	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	10	0.13	0.02	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	10	0.13	0.02	0.13
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	10	0.13	0.03	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	10	0.13	0.03	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	10	0.13	0.03	0.11
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	9	0.15	0.02	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	9	0.15	0.02	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	9	0.15	0.02	0.14
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	8	0.11	0.0	0.11
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	7	0.25	0.02	0.26
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	7	0.23	0.04	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	7	0.23	0.04	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	7	0.23	0.04	0.24
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	7	0.22	0.03	0.23
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	7	0.22	0.03	0.23
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	7	0.22	0.03	0.23
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	7	0.22	0.07	0.26
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	7	0.21	0.02	0.21
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	7	0.16	0.04	0.14
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	7	0.16	0.04	0.14
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	7	0.16	0.04	0.14
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	7	0.11	0.0	0.11
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	6	0.21	0.05	0.22
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	6	0.19	0.04	0.2
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	6	0.17	0.02	0.18
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	6	0.17	0.03	0.17
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	6	0.15	0.04	0.14
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	6	0.15	0.04	0.14
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	6	0.15	0.04	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	6	0.14	0.02	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	6	0.14	0.02	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	6	0.14	0.02	0.14
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	6	0.13	0.02	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	6	0.13	0.02	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	6	0.13	0.02	0.12
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	6	0.13	0.01	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	6	0.13	0.01	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	6	0.13	0.01	0.13
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	6	0.13	0.02	0.12
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	5	0.34	0.01	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	5	0.23	0.0	0.23
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	5	0.21	0.03	0.21
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	5	0.19	0.06	0.16
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	5	0.16	0.06	0.12
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	5	0.16	0.06	0.12
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	5	0.16	0.06	0.12
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	5	0.15	0.03	0.14
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	5	0.15	0.01	0.15
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	5	0.12	0.01	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	5	0.12	0.01	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	5	0.12	0.01	0.12
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	5	0.12	0.01	0.11
(3,143)	1:p:14:GLU:H	1:p:14:GLU:HG2	4	0.29	0.0	0.29
(3,299)	1:p:26:GLU:H	1:p:26:GLU:HG2	4	0.29	0.01	0.28
(3,158)	1:p:15:LEU:H	1:p:14:GLU:HB2	4	0.28	0.01	0.28
(3,108)	1:p:11:ASN:H	1:p:10:GLN:HG3	4	0.27	0.01	0.28
(3,89)	1:p:10:GLN:H	1:p:10:GLN:HB3	4	0.23	0.01	0.24
(3,314)	1:p:27:LYS:H	1:p:26:GLU:HB2	4	0.22	0.02	0.22
(3,142)	1:p:14:GLU:H	1:p:14:GLU:HG3	4	0.22	0.0	0.22
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD21	4	0.21	0.03	0.22
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD22	4	0.21	0.03	0.22
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD23	4	0.21	0.03	0.22
(3,109)	1:p:11:ASN:H	1:p:10:GLN:HG2	4	0.2	0.01	0.2
(3,298)	1:p:26:GLU:H	1:p:26:GLU:HG3	4	0.2	0.01	0.2
(3,535)	1:p:65:GLN:H	1:p:64:LEU:HB2	4	0.18	0.01	0.18
(2,12)	1:p:28:GLU:N	1:p:24:GLN:O	4	0.18	0.05	0.16
(3,400)	1:p:53:LEU:H	1:p:52:ALA:HA	4	0.12	0.01	0.12
(3,348)	1:p:30:GLN:H	1:p:30:GLN:HG2	4	0.12	0.02	0.12
(3,288)	1:p:25:LEU:H	1:p:24:GLN:HG3	3	0.34	0.03	0.33
(3,251)	1:p:22:LEU:H	1:p:21:GLU:HG3	3	0.32	0.01	0.32
(3,269)	1:p:24:GLN:H	1:p:24:GLN:HB3	3	0.26	0.03	0.28
(3,232)	1:p:21:GLU:H	1:p:21:GLU:HB3	3	0.24	0.02	0.23
(3,694)	1:p:79:GLN:H	1:p:79:GLN:HB3	3	0.24	0.0	0.24
(3,358)	1:p:31:ALA:H	1:p:30:GLN:H	3	0.19	0.03	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD11	3	0.18	0.05	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD12	3	0.18	0.05	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD13	3	0.18	0.05	0.21
(3,363)	1:p:31:ALA:H	1:p:30:GLN:HG2	3	0.17	0.03	0.15
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD11	3	0.17	0.04	0.19
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD12	3	0.17	0.04	0.19
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD13	3	0.17	0.04	0.19
(3,289)	1:p:25:LEU:H	1:p:24:GLN:HG2	3	0.16	0.01	0.15

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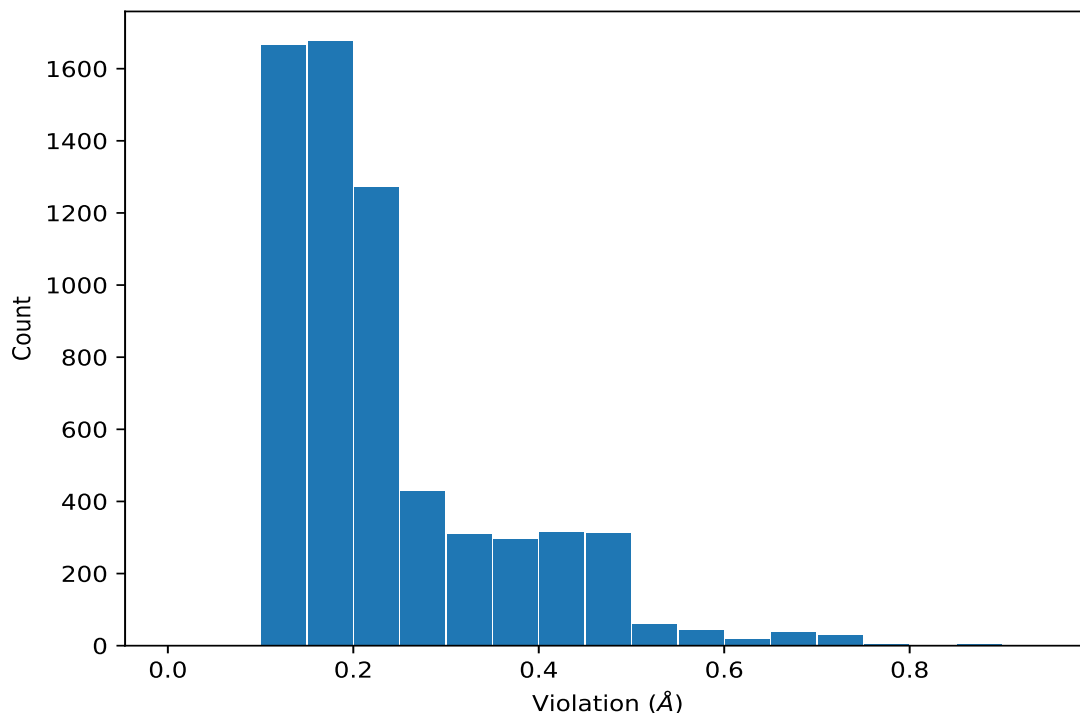
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,252)	1:p:22:LEU:H	1:p:21:GLU:HG2	3	0.13	0.02	0.11
(3,591)	1:p:70:LYS:H	1:p:70:LYS:HG2	3	0.13	0.0	0.13
(3,490)	1:p:61:LYS:H	1:p:60:LEU:HA	3	0.12	0.01	0.12
(3,238)	1:p:21:GLU:H	1:p:20:LYS:HB3	3	0.12	0.0	0.12
(3,312)	1:p:27:LYS:H	1:p:26:GLU:HA	3	0.12	0.01	0.11
(3,57)	1:p:7:GLU:H	1:p:6:LYS:HB2	3	0.11	0.0	0.11
(3,345)	1:p:30:GLN:H	1:p:30:GLN:HB3	2	0.32	0.01	0.32
(3,543)	1:p:66:ALA:H	1:p:65:GLN:HB3	2	0.28	0.02	0.28
(3,409)	1:p:54:LYS:H	1:p:53:LEU:HB3	2	0.26	0.01	0.26
(3,347)	1:p:30:GLN:H	1:p:30:GLN:HG3	2	0.22	0.01	0.22
(3,10)	1:p:2:GLN:H	1:p:2:GLN:HG2	2	0.2	0.04	0.2
(3,546)	1:p:66:ALA:H	1:p:65:GLN:HG2	2	0.2	0.01	0.2
(3,545)	1:p:66:ALA:H	1:p:65:GLN:HG3	2	0.17	0.0	0.17
(3,528)	1:p:65:GLN:H	1:p:65:GLN:HB3	2	0.17	0.01	0.17
(3,280)	1:p:25:LEU:H	1:p:25:LEU:HB3	2	0.15	0.0	0.15
(2,5)	1:p:14:GLU:N	1:p:10:GLN:O	2	0.14	0.01	0.14
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD21	2	0.13	0.02	0.13
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD22	2	0.13	0.02	0.13
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD23	2	0.13	0.02	0.13
(3,267)	1:p:23:ALA:H	1:p:20:LYS:HA	2	0.12	0.02	0.12
(2,9)	1:p:22:LEU:N	1:p:18:LEU:O	2	0.12	0.01	0.12
(3,220)	1:p:20:LYS:H	1:p:20:LYS:HG2	2	0.12	0.01	0.12
(3,489)	1:p:61:LYS:H	1:p:61:LYS:HG2	2	0.12	0.01	0.12
(3,250)	1:p:22:LEU:H	1:p:21:GLU:HB2	2	0.11	0.0	0.11
(3,605)	1:p:71:ASN:H	1:p:70:LYS:HA	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	6	0.92
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	30	0.88
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	1	0.87
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	13	0.87
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	10	0.86
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	25	0.81
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	15	0.8
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	15	0.76
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	35	0.76
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	9	0.75
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	32	0.74
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	28	0.74
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	7	0.74
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	19	0.74
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	24	0.74
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	26	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	29	0.73
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	1	0.73
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	7	0.73
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	17	0.73
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	35	0.73
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	1	0.73
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	21	0.73
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	31	0.72
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	25	0.72
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	29	0.72
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	30	0.72
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	32	0.72
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	22	0.71
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	3	0.71
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	18	0.71
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	23	0.71
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	33	0.71
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	19	0.7
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	24	0.7
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	3	0.7
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	20	0.7
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	9	0.7
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	23	0.7
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	7	0.69
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	18	0.69
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	15	0.69
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	27	0.69
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	8	0.69
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	17	0.69
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	22	0.69
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	3	0.68
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	27	0.68
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	30	0.68
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	33	0.68
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	6	0.68
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	17	0.68
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	21	0.68
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	31	0.68
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	14	0.68
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	18	0.68
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	27	0.68
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	28	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	13	0.67
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	31	0.67
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	2	0.67
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	20	0.67
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	34	0.67
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	5	0.67
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	12	0.67
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	14	0.66
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	9	0.66
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	11	0.66
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	12	0.66
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	22	0.66
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	5	0.66
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	16	0.66
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	12	0.65
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	1	0.65
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	5	0.65
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	8	0.65
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	21	0.65
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	2	0.64
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	28	0.64
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	32	0.64
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	25	0.64
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	4	0.63
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	22	0.63
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	4	0.62
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	6	0.62
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	2	0.61
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	36	0.61
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	8	0.61
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	26	0.61
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	36	0.61
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	13	0.61
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	34	0.61
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	20	0.6
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	34	0.6
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	18	0.6
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	4	0.6
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	20	0.59
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	2	0.59
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	27	0.59
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	35	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	3	0.59
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	31	0.59
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	1	0.58
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	5	0.58
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	33	0.58
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	5	0.58
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	11	0.58
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	14	0.58
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	26	0.58
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	29	0.58
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	28	0.58
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	35	0.57
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	17	0.57
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	17	0.57
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	17	0.57
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	20	0.57
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	29	0.57
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	10	0.57
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	12	0.57
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	35	0.57
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	27	0.57
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	10	0.57
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	4	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	8	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	11	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	14	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	23	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	24	0.56
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	26	0.56
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	8	0.56
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	33	0.56
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	2	0.56
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	19	0.55
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	14	0.55
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	29	0.55
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	25	0.55
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	17	0.55
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	25	0.55
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	31	0.55
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	11	0.55
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	12	0.54
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	1	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	25	0.54
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	16	0.54
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	16	0.54
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	26	0.54
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	13	0.54
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	16	0.54
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	22	0.54
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	15	0.54
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	36	0.54
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	28	0.53
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	13	0.53
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	36	0.53
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	24	0.53
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	31	0.53
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	23	0.53
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	25	0.53
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	6	0.53
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	9	0.52
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	19	0.52
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	20	0.52
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	11	0.52
(3,355)	1:p:30:GLN:H	1:p:27:LYS:H	32	0.52
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	10	0.52
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	21	0.52
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	23	0.52
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	28	0.52
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	13	0.52
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	24	0.52
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	16	0.52
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	20	0.52
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	4	0.51
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	5	0.51
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	15	0.51
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	2	0.51
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	9	0.51
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	19	0.51
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	29	0.51
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	11	0.51
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	5	0.51
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	5	0.5
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	7	0.5
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	15	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	33	0.5
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	36	0.5
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	13	0.5
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	16	0.5
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	36	0.5
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	10	0.5
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	32	0.5
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	10	0.5
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	30	0.5
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	12	0.5
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	15	0.5
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	21	0.5
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	26	0.5
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	16	0.5
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	9	0.5
(3,124)	1:p:12:GLU:H	1:p:9:ALA:H	33	0.5
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	34	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	2	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	3	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	8	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	16	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	17	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	21	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	25	0.49
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	34	0.49
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	6	0.49
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	10	0.49
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	29	0.49
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	5	0.49
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	9	0.49
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	19	0.49
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	10	0.49
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	33	0.49
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	33	0.49
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	33	0.49
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	8	0.49
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	1	0.49
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	3	0.49
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	6	0.49
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	15	0.49
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	18	0.49
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	12	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	20	0.49
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	7	0.49
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	14	0.49
(3,214)	1:p:19:GLU:H	1:p:16:GLN:H	16	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	2	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	3	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	4	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	8	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	9	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	13	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	16	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	19	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	22	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	27	0.49
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	35	0.49
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	10	0.49
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	29	0.49
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	33	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	2	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	15	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	17	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	20	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	21	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	24	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	25	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	26	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	29	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	30	0.48
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	33	0.48
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	26	0.48
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	28	0.48
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	29	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	14	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	18	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	26	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	28	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	32	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	33	0.48
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	36	0.48
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	21	0.48
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	12	0.48
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	12	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	12	0.48
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	21	0.48
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	21	0.48
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	21	0.48
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	6	0.48
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	7	0.48
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	8	0.48
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	7	0.48
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	7	0.48
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	7	0.48
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	21	0.48
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	22	0.48
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	34	0.48
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	4	0.48
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	7	0.48
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	16	0.48
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	5	0.48
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	12	0.48
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	19	0.48
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	25	0.48
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	27	0.48
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	28	0.48
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	29	0.48
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	9	0.48
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	16	0.48
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	35	0.48
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	1	0.48
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	17	0.48
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	20	0.48
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	24	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	7	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	9	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	14	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	19	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	23	0.48
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	24	0.48
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	33	0.47
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	6	0.47
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	10	0.47
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	15	0.47
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	36	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	1	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	3	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	5	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	7	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	8	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	10	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	11	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	13	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	14	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	18	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	22	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	23	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	27	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	31	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	32	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	35	0.47
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	36	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	10	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	11	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	14	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	18	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	20	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	27	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	31	0.47
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	32	0.47
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	2	0.47
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	7	0.47
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	11	0.47
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	31	0.47
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	35	0.47
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	4	0.47
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	19	0.47
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	3	0.47
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	29	0.47
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	36	0.47
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	27	0.47
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	36	0.47
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	20	0.47
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	7	0.47
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	30	0.47
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	32	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	6	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	11	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	16	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	26	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	33	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	34	0.47
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	36	0.47
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	31	0.47
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	4	0.47
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	16	0.47
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	9	0.47
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	9	0.47
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	9	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	6	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	18	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	23	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	30	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	32	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	34	0.47
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	36	0.47
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	25	0.47
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	28	0.47
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	33	0.47
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	9	0.46
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	16	0.46
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	20	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	2	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	3	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	5	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	11	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	16	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	31	0.46
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	4	0.46
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	6	0.46
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	9	0.46
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	19	0.46
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	28	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	1	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	6	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	9	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	13	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	19	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	22	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	23	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	30	0.46
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	35	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	8	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	16	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	22	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	23	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	24	0.46
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	30	0.46
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	5	0.46
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	9	0.46
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	33	0.46
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	36	0.46
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	25	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	11	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	17	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	24	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	27	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	28	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	30	0.46
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	32	0.46
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	28	0.46
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	12	0.46
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	4	0.46
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	20	0.46
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	34	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	1	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	5	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	7	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	8	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	9	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	15	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	22	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	30	0.46
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	31	0.46
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	13	0.46
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	5	0.46
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	9	0.46
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	15	0.46
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	35	0.46
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	20	0.46
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	20	0.46
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	20	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	3	0.46
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	15	0.46
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	22	0.46
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	27	0.46
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	33	0.46
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	11	0.46
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	20	0.46
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	22	0.45
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	23	0.45
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	27	0.45
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	28	0.45
(3,691)	1:p:78:LEU:H	1:p:75:LYS:H	16	0.45
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	12	0.45
(3,629)	1:p:73:GLN:H	1:p:70:LYS:H	24	0.45
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	4	0.45
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	12	0.45
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	21	0.45
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	27	0.45
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	34	0.45
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	29	0.45
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	36	0.45
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	12	0.45
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	34	0.45
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	34	0.45
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	34	0.45
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	34	0.45
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	17	0.45
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	18	0.45
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	32	0.45
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	34	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	10	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	10	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	10	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	29	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	29	0.45
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	29	0.45
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	6	0.45
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	15	0.45
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	5	0.45
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	20	0.45
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	26	0.45
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	35	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	8	0.45
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	6	0.45
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	26	0.45
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	32	0.45
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	36	0.45
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	2	0.45
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	9	0.45
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	13	0.45
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	17	0.45
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	3	0.45
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	14	0.45
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	24	0.45
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	35	0.45
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	5	0.45
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	19	0.45
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	20	0.45
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	28	0.45
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	7	0.45
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	10	0.45
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	14	0.45
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	25	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	1	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	8	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	11	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	13	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	20	0.45
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	31	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	10	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	14	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	23	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	24	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	26	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	27	0.45
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	29	0.45
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	4	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	8	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	12	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	13	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	14	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	17	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	18	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	20	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	25	0.44
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	4	0.44
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	16	0.44
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	3	0.44
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	7	0.44
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	10	0.44
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	12	0.44
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	14	0.44
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	23	0.44
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	31	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	9	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	12	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	18	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	23	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	31	0.44
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	33	0.44
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	26	0.44
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	11	0.44
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	20	0.44
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	33	0.44
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	10	0.44
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	11	0.44
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	26	0.44
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	24	0.44
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	18	0.44
(3,317)	1:p:27:LYS:H	1:p:24:GLN:H	33	0.44
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	2	0.44
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	4	0.44
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	17	0.44
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	21	0.44
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	28	0.44
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	26	0.44
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	27	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	2	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	6	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	18	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	26	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	30	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	32	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	35	0.44
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	36	0.44
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	12	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	20	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	7	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	8	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	19	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	25	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	31	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	32	0.44
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	36	0.44
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	34	0.43
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	18	0.43
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	8	0.43
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	10	0.43
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	13	0.43
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	20	0.43
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	36	0.43
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	29	0.43
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	36	0.43
(3,609)	1:p:71:ASN:H	1:p:68:LYS:H	17	0.43
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	4	0.43
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	8	0.43
(3,574)	1:p:68:LYS:H	1:p:65:GLN:H	17	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	2	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	11	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	13	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	24	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	26	0.43
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	35	0.43
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	24	0.43
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	24	0.43
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	24	0.43
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	8	0.43
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	10	0.43
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	28	0.43
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	36	0.43
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	8	0.43
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	16	0.43
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	27	0.43
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	35	0.43
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	3	0.43
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	7	0.43
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	19	0.43
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	13	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	19	0.43
(3,276)	1:p:24:GLN:H	1:p:21:GLU:H	23	0.43
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	7	0.43
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	17	0.43
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	22	0.43
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	12	0.43
(3,197)	1:p:18:LEU:H	1:p:15:LEU:H	29	0.43
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	12	0.43
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	17	0.43
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	34	0.43
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	10	0.43
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	27	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	1	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	2	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	18	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	22	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	30	0.43
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	35	0.43
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	7	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	19	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	21	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	29	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	30	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	35	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	6	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	9	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	11	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	12	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	14	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	18	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	19	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	22	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	25	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	27	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	28	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	29	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	30	0.42
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	32	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	1	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	4	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	6	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	8	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	9	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	10	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	14	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	15	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	16	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	19	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	20	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	25	0.42
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	35	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	6	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	14	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	16	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	18	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	20	0.42
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	31	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	1	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	3	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	21	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	22	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	28	0.42
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	30	0.42
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	34	0.42
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	7	0.42
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	20	0.42
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	30	0.42
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	32	0.42
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	4	0.42
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	1	0.42
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	21	0.42
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	3	0.42
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	4	0.42
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	8	0.42
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	11	0.42
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	33	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	2	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	7	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	15	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	17	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	21	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	22	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	26	0.42
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	34	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	3	0.42
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	6	0.42
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	15	0.42
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	17	0.42
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	21	0.42
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	34	0.42
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	1	0.41
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	9	0.41
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	26	0.41
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	32	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	1	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	3	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	7	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	17	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	21	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	23	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	24	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	31	0.41
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	33	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	3	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	5	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	7	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	11	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	13	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	17	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	18	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	24	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	26	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	27	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	28	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	30	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	31	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	32	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	33	0.41
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	34	0.41
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	1	0.41
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	9	0.41
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	32	0.41
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	34	0.41
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	25	0.41
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	27	0.41
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	26	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	21	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	1	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	3	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	5	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	6	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	9	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	10	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	11	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	15	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	16	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	17	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	18	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	22	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	31	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	32	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	33	0.41
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	35	0.41
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	5	0.41
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	15	0.41
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	23	0.41
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	31	0.41
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	12	0.41
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	21	0.41
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	35	0.41
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	10	0.41
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	24	0.41
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	17	0.41
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	4	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	1	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	6	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	14	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	18	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	28	0.41
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	36	0.41
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	4	0.41
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	28	0.41
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	8	0.4
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	11	0.4
(3,86)	1:p:9:ALA:H	1:p:6:LYS:H	24	0.4
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	2	0.4
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	5	0.4
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	15	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	26	0.4
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	34	0.4
(3,681)	1:p:77:LYS:H	1:p:74:LEU:H	35	0.4
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	2	0.4
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	12	0.4
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	21	0.4
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	22	0.4
(3,642)	1:p:74:LEU:H	1:p:71:ASN:H	23	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	3	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	11	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	17	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	19	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	27	0.4
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	35	0.4
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	20	0.4
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	6	0.4
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	15	0.4
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	22	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	4	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	12	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	13	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	19	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	23	0.4
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	27	0.4
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	8	0.4
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	18	0.4
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	34	0.4
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	23	0.4
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	5	0.4
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	6	0.4
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	18	0.4
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	10	0.4
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	14	0.4
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	15	0.4
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	25	0.4
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	29	0.4
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	31	0.4
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	5	0.4
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	9	0.4
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	21	0.4
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	30	0.4
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	31	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	26	0.4
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	26	0.4
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	26	0.4
(3,174)	1:p:16:GLN:H	1:p:13:TRP:H	21	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	13	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	16	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	25	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	31	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	32	0.4
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	35	0.4
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	5	0.4
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	12	0.4
(3,148)	1:p:14:GLU:H	1:p:11:ASN:H	13	0.4
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	15	0.39
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	29	0.39
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	32	0.39
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	9	0.39
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	2	0.39
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	15	0.39
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	33	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	5	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	13	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	22	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	24	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	30	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	33	0.39
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	34	0.39
(3,561)	1:p:67:LEU:H	1:p:64:LEU:H	15	0.39
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	2	0.39
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	14	0.39
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	19	0.39
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	25	0.39
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	2	0.39
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	17	0.39
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	20	0.39
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	12	0.39
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	28	0.39
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	10	0.39
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	14	0.39
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	23	0.39
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	30	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	12	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	13	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	15	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	18	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	19	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	20	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	22	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	24	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	26	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	32	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	34	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	35	0.39
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	36	0.39
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	19	0.39
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	19	0.39
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	19	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	3	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	4	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	11	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	23	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	29	0.39
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	33	0.39
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	1	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	2	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	3	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	6	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	10	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	17	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	19	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	22	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	24	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	25	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	26	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	27	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	28	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	31	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	36	0.38
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	24	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	3	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	5	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	7	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	8	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	17	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	25	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	34	0.38
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	36	0.38
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	12	0.38
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	23	0.38
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	26	0.38
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	28	0.38
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	1	0.38
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	13	0.38
(3,513)	1:p:63:LYS:H	1:p:60:LEU:H	25	0.38
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	2	0.38
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	29	0.38
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	34	0.38
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	4	0.38
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	6	0.38
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	9	0.38
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	21	0.38
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	36	0.38
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	14	0.38
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	32	0.38
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	35	0.38
(3,288)	1:p:25:LEU:H	1:p:24:GLN:HG3	25	0.38
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	4	0.38
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	2	0.38
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	5	0.38
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	9	0.38
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	16	0.38
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	2	0.38
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	11	0.38
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	21	0.38
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	32	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	1	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	2	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	6	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	23	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	27	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	28	0.38
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	29	0.38
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	12	0.38
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	12	0.38
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	12	0.38
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	35	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	35	0.38
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	35	0.38
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	9	0.38
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	19	0.38
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	24	0.38
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	30	0.38
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	9	0.38
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	16	0.38
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	4	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	5	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	7	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	14	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	18	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	23	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	34	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	35	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	4	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	14	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	18	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	21	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	22	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	26	0.37
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	29	0.37
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	25	0.37
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	28	0.37
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	9	0.37
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	18	0.37
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	23	0.37
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	14	0.37
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	21	0.37
(3,481)	1:p:60:LEU:H	1:p:57:LEU:H	24	0.37
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	34	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	12	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	13	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	22	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	23	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	25	0.37
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	28	0.37
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	34	0.37
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	22	0.37
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	7	0.37
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	13	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	17	0.37
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	19	0.37
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	29	0.37
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	18	0.37
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	20	0.37
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	36	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	6	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	7	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	18	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	26	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	27	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	34	0.37
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	36	0.37
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	7	0.37
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	10	0.37
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	14	0.37
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	16	0.37
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	16	0.37
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	8	0.37
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	12	0.36
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	13	0.36
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	21	0.36
(3,97)	1:p:10:GLN:H	1:p:7:GLU:H	30	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	10	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	11	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	12	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	16	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	20	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	23	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	27	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	28	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	31	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	32	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	35	0.36
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	2	0.36
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	18	0.36
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	24	0.36
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	19	0.36
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	19	0.36
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	19	0.36
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	24	0.36
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	24	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	24	0.36
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	5	0.36
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	14	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	3	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	11	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	14	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	16	0.36
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	30	0.36
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	29	0.36
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	4	0.36
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	33	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	8	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	14	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	21	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	22	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	26	0.36
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	30	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	1	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	4	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	6	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	11	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	24	0.36
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	33	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	1	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	3	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	8	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	13	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	17	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	19	0.36
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	33	0.36
(3,227)	1:p:20:LYS:H	1:p:17:ALA:H	25	0.36
(3,161)	1:p:15:LEU:H	1:p:12:GLU:H	5	0.36
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	8	0.36
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	19	0.36
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	1	0.35
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	6	0.35
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	19	0.35
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	24	0.35
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	30	0.35
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	15	0.35
(3,597)	1:p:70:LYS:H	1:p:67:LEU:H	21	0.35
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	2	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	3	0.35
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	23	0.35
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	29	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	3	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	4	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	10	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	16	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	31	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	32	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	33	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	35	0.35
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	36	0.35
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	8	0.35
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	13	0.35
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	21	0.35
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	22	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	5	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	10	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	15	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	24	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	26	0.35
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	27	0.35
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	2	0.35
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	30	0.35
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	31	0.35
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	16	0.35
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	27	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	1	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	3	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	11	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	25	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	27	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	33	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	34	0.35
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	36	0.35
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	3	0.35
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	23	0.35
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	28	0.35
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	34	0.35
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	7	0.35
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	10	0.35
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	13	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	14	0.35
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	19	0.35
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	4	0.35
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	11	0.35
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	31	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	1	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	3	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	4	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	7	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	20	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	21	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	24	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	29	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	32	0.35
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	35	0.35
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	9	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	1	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	14	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	15	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	21	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	25	0.34
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	30	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	5	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	5	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	5	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	9	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	9	0.34
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	9	0.34
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	11	0.34
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	27	0.34
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	30	0.34
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	2	0.34
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	2	0.34
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	2	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	1	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	2	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	5	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	6	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	12	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	16	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	19	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	20	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	26	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	27	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	29	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	30	0.34
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	32	0.34
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	1	0.34
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	29	0.34
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	31	0.34
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	33	0.34
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	28	0.34
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	11	0.34
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	14	0.34
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	26	0.34
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	30	0.34
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	28	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	2	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	6	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	18	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	23	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	24	0.34
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	32	0.34
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	8	0.34
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	32	0.34
(3,240)	1:p:21:GLU:H	1:p:18:LEU:H	22	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	13	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	13	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	13	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	27	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	27	0.34
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	27	0.34
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	21	0.34
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	8	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	5	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	11	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	13	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	14	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	17	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	18	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	22	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	23	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	25	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	27	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	30	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	31	0.34
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	33	0.34
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	34	0.34
(3,670)	1:p:76:LYS:H	1:p:73:GLN:H	13	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	7	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	9	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	13	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	17	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	22	0.33
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	12	0.33
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	17	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	4	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	7	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	9	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	10	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	11	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	15	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	23	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	24	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	28	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	33	0.33
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	36	0.33
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	7	0.33
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	9	0.33
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	20	0.33
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	33	0.33
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	8	0.33
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	29	0.33
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	10	0.33
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	30	0.33
(3,322)	1:p:28:GLU:H	1:p:28:GLU:HG2	34	0.33
(3,288)	1:p:25:LEU:H	1:p:24:GLN:HG3	12	0.33
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	15	0.33
(3,266)	1:p:23:ALA:H	1:p:20:LYS:H	31	0.33
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	25	0.33
(3,251)	1:p:22:LEU:H	1:p:21:GLU:HG3	31	0.33
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	22	0.33
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	22	0.33
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	22	0.33
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	15	0.33
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	23	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	24	0.33
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	25	0.33
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	29	0.33
(3,207)	1:p:19:GLU:H	1:p:19:GLU:HG2	30	0.33
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	3	0.33
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	9	0.33
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	24	0.33
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	30	0.33
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	33	0.33
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	21	0.33
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	6	0.33
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	10	0.33
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	26	0.33
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	36	0.33
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	8	0.32
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	19	0.32
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	31	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	3	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	3	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	3	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	23	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	23	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	23	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	35	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	35	0.32
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	35	0.32
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	3	0.32
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	17	0.32
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	25	0.32
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	31	0.32
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	35	0.32
(3,345)	1:p:30:GLN:H	1:p:30:GLN:HB3	15	0.32
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	1	0.32
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	17	0.32
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	22	0.32
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	25	0.32
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	32	0.32
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	30	0.32
(3,251)	1:p:22:LEU:H	1:p:21:GLU:HG3	15	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	7	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	7	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	7	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	31	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	31	0.32
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	31	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	5	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	16	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	21	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	26	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	32	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	34	0.32
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	35	0.32
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	31	0.32
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	33	0.32
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	35	0.32
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	2	0.32
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	12	0.32
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	28	0.32
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	34	0.32
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	15	0.32
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	28	0.32
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	12	0.31
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	12	0.31
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	12	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	4	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	8	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	10	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	12	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	20	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	36	0.31
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	1	0.31
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	4	0.31
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	10	0.31
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	12	0.31
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	16	0.31
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	35	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	22	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	22	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	22	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	29	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	29	0.31
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	29	0.31
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	24	0.31
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	28	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	28	0.31
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	28	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	4	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	10	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	16	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	19	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	31	0.31
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	35	0.31
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	18	0.31
(3,455)	1:p:58:ALA:H	1:p:55:LYS:H	35	0.31
(3,434)	1:p:56:LYS:H	1:p:53:LEU:H	19	0.31
(3,345)	1:p:30:GLN:H	1:p:30:GLN:HB3	30	0.31
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	13	0.31
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	18	0.31
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	21	0.31
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	36	0.31
(3,253)	1:p:22:LEU:H	1:p:19:GLU:H	29	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	5	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	5	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	5	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	10	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	10	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	10	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	16	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	16	0.31
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	16	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	6	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	17	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	18	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	19	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	23	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	29	0.31
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	36	0.31
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	3	0.31
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	4	0.31
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	11	0.31
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	13	0.31
(3,135)	1:p:13:TRP:H	1:p:10:GLN:H	15	0.31
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	1	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	6	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	9	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	11	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	13	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	14	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	16	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	18	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	19	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	22	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	23	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	24	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	27	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	29	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	30	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	31	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	32	0.3
(3,625)	1:p:73:GLN:H	1:p:73:GLN:HG2	35	0.3
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	3	0.3
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	11	0.3
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	27	0.3
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	27	0.3
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	27	0.3
(3,543)	1:p:66:ALA:H	1:p:65:GLN:HB3	3	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	3	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	3	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	3	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	27	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	27	0.3
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	27	0.3
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	7	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	14	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	14	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	14	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	26	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	26	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	26	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	28	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	28	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	28	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	36	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	36	0.3
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	36	0.3
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	8	0.3
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	22	0.3
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	6	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	15	0.3
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	24	0.3
(3,299)	1:p:26:GLU:H	1:p:26:GLU:HG2	34	0.3
(3,288)	1:p:25:LEU:H	1:p:24:GLN:HG3	20	0.3
(3,251)	1:p:22:LEU:H	1:p:21:GLU:HG3	4	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	1	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	2	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	12	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	13	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	14	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	20	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	25	0.3
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	27	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	5	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	8	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	9	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	16	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	19	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	23	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	24	0.3
(3,167)	1:p:16:GLN:H	1:p:16:GLN:HG2	30	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	5	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	6	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	10	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	14	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	25	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	27	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	33	0.3
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	36	0.3
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	20	0.3
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	9	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	9	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	9	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	29	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	29	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	29	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	2	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	2	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	2	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	11	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	11	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	11	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	30	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	30	0.29
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	30	0.29
(3,526)	1:p:64:LEU:H	1:p:61:LYS:H	29	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	7	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	12	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	15	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	17	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	21	0.29
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	29	0.29
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	4	0.29
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	4	0.29
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	4	0.29
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	3	0.29
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	7	0.29
(3,341)	1:p:29:LEU:H	1:p:26:GLU:H	19	0.29
(3,269)	1:p:24:GLN:H	1:p:24:GLN:HB3	20	0.29
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	21	0.29
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	21	0.29
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	21	0.29
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	7	0.29
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	10	0.29
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	28	0.29
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	7	0.29
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	10	0.29
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	12	0.29
(3,158)	1:p:15:LEU:H	1:p:14:GLU:HB2	15	0.29
(3,143)	1:p:14:GLU:H	1:p:14:GLU:HG2	5	0.29
(3,143)	1:p:14:GLU:H	1:p:14:GLU:HG2	33	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	1	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	2	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	7	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	11	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	17	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	18	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	22	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	26	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	29	0.29
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	32	0.29
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	33	0.29
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	1	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	1	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	1	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	19	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	19	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	19	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	24	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	24	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	24	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	32	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	32	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	32	0.28
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	4	0.28
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	20	0.28
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	32	0.28
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	21	0.28
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	28	0.28
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	4	0.28
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	26	0.28
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	28	0.28
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	8	0.28
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	8	0.28
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	8	0.28
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	22	0.28
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	22	0.28
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	22	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	16	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	16	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	16	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	20	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	20	0.28
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	20	0.28
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	2	0.28
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	13	0.28
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	22	0.28
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	24	0.28
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	25	0.28
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	33	0.28
(3,299)	1:p:26:GLU:H	1:p:26:GLU:HG2	4	0.28
(3,299)	1:p:26:GLU:H	1:p:26:GLU:HG2	20	0.28
(3,299)	1:p:26:GLU:H	1:p:26:GLU:HG2	33	0.28
(3,269)	1:p:24:GLN:H	1:p:24:GLN:HB3	12	0.28
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	31	0.28
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	31	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	31	0.28
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	15	0.28
(3,185)	1:p:17:ALA:H	1:p:14:GLU:H	22	0.28
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	21	0.28
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	21	0.28
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	21	0.28
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	14	0.28
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	22	0.28
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	25	0.28
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	29	0.28
(3,158)	1:p:15:LEU:H	1:p:14:GLU:HB2	33	0.28
(3,143)	1:p:14:GLU:H	1:p:14:GLU:HG2	15	0.28
(3,143)	1:p:14:GLU:H	1:p:14:GLU:HG2	28	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	3	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	9	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	16	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	19	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	24	0.28
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	35	0.28
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	8	0.28
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	9	0.28
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	16	0.28
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	23	0.28
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	31	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	11	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	12	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	15	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	16	0.28
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	28	0.28
(3,108)	1:p:11:ASN:H	1:p:10:GLN:HG3	16	0.28
(3,108)	1:p:11:ASN:H	1:p:10:GLN:HG3	20	0.28
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	1	0.28
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	15	0.28
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	7	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	7	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	7	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	26	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	26	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	26	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	35	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	35	0.27
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	35	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,69)	1:p:8:LEU:H	1:p:7:GLU:HG3	34	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	1	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	6	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	8	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	9	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	12	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	13	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	16	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	24	0.27
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	30	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	2	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	5	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	15	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	17	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	25	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	26	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	33	0.27
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	34	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	8	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	11	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	13	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	15	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	17	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	22	0.27
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	29	0.27
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	32	0.27
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	36	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	14	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	14	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	14	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	28	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	28	0.27
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	28	0.27
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	3	0.27
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	30	0.27
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	30	0.27
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	30	0.27
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	1	0.27
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	9	0.27
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	30	0.27
(3,409)	1:p:54:LYS:H	1:p:53:LEU:HB3	24	0.27
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	27	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	34	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	4	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	4	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	4	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	31	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	31	0.27
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	31	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	2	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	2	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	2	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	24	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	24	0.27
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	24	0.27
(3,232)	1:p:21:GLU:H	1:p:21:GLU:HB3	4	0.27
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	15	0.27
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	15	0.27
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	15	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	1	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	2	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	18	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	20	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	23	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	26	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	27	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	32	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	34	0.27
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	36	0.27
(3,158)	1:p:15:LEU:H	1:p:14:GLU:HB2	5	0.27
(3,158)	1:p:15:LEU:H	1:p:14:GLU:HB2	28	0.27
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	4	0.27
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	13	0.27
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	30	0.27
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	8	0.27
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	23	0.27
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	31	0.27
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	3	0.27
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	19	0.27
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	24	0.27
(3,119)	1:p:12:GLU:H	1:p:12:GLU:HG2	35	0.27
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	2	0.27
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	4	0.27
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	10	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	21	0.27
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	31	0.27
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	36	0.27
(3,108)	1:p:11:ASN:H	1:p:10:GLN:HG3	9	0.27
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	13	0.27
(3,70)	1:p:8:LEU:H	1:p:7:GLU:HG2	34	0.26
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	34	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	10	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	11	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	14	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	19	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	22	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	29	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	35	0.26
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	36	0.26
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	25	0.26
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	25	0.26
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	25	0.26
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	3	0.26
(3,622)	1:p:73:GLN:H	1:p:73:GLN:HB3	7	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	7	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	30	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	32	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	34	0.26
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	36	0.26
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	6	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	4	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	4	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	4	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	36	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	36	0.26
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	36	0.26
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	3	0.26
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	23	0.26
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	34	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	23	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	23	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	23	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	27	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	27	0.26
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	27	0.26
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	36	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	36	0.26
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	36	0.26
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	6	0.26
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	6	0.26
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	6	0.26
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	22	0.26
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	32	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	13	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	13	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	13	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	17	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	17	0.26
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	17	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	18	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	18	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	18	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	36	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	36	0.26
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	36	0.26
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	14	0.26
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	14	0.26
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	14	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	6	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	9	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	13	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	16	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	17	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	19	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	24	0.26
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	30	0.26
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	21	0.26
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	2	0.26
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	6	0.26
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	11	0.26
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	17	0.26
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	18	0.26
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	5	0.26
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	6	0.26
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	13	0.26
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	23	0.26
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	30	0.26
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	25	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,12)	1:p:28:GLU:N	1:p:24:GLN:O	12	0.26
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	14	0.25
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	1	0.25
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	3	0.25
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	12	0.25
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	23	0.25
(3,694)	1:p:79:GLN:H	1:p:79:GLN:HB3	21	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	18	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	21	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	23	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	27	0.25
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	31	0.25
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	3	0.25
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	5	0.25
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	17	0.25
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	33	0.25
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	34	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	6	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	9	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	10	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	16	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	20	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	23	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	24	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	25	0.25
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	27	0.25
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	5	0.25
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	20	0.25
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	27	0.25
(3,58)	1:p:7:GLU:H	1:p:4:LEU:H	33	0.25
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	26	0.25
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	26	0.25
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	26	0.25
(3,543)	1:p:66:ALA:H	1:p:65:GLN:HB3	17	0.25
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	8	0.25
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	8	0.25
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	8	0.25
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	19	0.25
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	19	0.25
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	19	0.25
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	14	0.25
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	17	0.25
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	17	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	32	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	32	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	32	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	33	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	33	0.25
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	33	0.25
(3,409)	1:p:54:LYS:H	1:p:53:LEU:HB3	14	0.25
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	7	0.25
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	9	0.25
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	28	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	3	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	3	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	3	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	15	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	15	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	15	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	28	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	28	0.25
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	28	0.25
(3,314)	1:p:27:LYS:H	1:p:26:GLU:HB2	20	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	15	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	15	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	15	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	30	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	30	0.25
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	30	0.25
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	12	0.25
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	34	0.25
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	6	0.25
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	14	0.25
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	29	0.25
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	17	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	12	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	12	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	12	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	20	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	20	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	20	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	21	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	21	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	21	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	25	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	25	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	25	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	26	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	26	0.25
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	26	0.25
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	5	0.25
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	5	0.25
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	5	0.25
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	5	0.25
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	16	0.25
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	19	0.25
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	23	0.25
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	24	0.25
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	35	0.25
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	35	0.25
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	35	0.25
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	11	0.25
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	21	0.25
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	35	0.25
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	20	0.25
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	20	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	1	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	7	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	14	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	22	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	25	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	26	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	29	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	32	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	33	0.25
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	36	0.25
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	9	0.25
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	14	0.25
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	26	0.25
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	27	0.25
(3,108)	1:p:11:ASN:H	1:p:10:GLN:HG3	33	0.25
(3,89)	1:p:10:GLN:H	1:p:10:GLN:HB3	9	0.24
(3,89)	1:p:10:GLN:H	1:p:10:GLN:HB3	16	0.24
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	21	0.24
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	21	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	21	0.24
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	30	0.24
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	30	0.24
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	30	0.24
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	30	0.24
(3,694)	1:p:79:GLN:H	1:p:79:GLN:HB3	13	0.24
(3,694)	1:p:79:GLN:H	1:p:79:GLN:HB3	14	0.24
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	15	0.24
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	25	0.24
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	26	0.24
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	34	0.24
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	7	0.24
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	25	0.24
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	26	0.24
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	13	0.24
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	19	0.24
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	23	0.24
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	14	0.24
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	14	0.24
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	14	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	2	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	5	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	14	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	18	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	21	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	26	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	28	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	31	0.24
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	35	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	20	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	20	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	20	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	32	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	32	0.24
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	32	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	2	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	2	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	2	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	18	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	18	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	18	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	31	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	31	0.24
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	31	0.24
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	23	0.24
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	23	0.24
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	23	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	14	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	14	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	14	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	34	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	34	0.24
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	34	0.24
(3,48)	1:p:6:LYS:H	1:p:3:ALA:H	18	0.24
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	8	0.24
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	8	0.24
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	8	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	1	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	1	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	1	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	3	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	3	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	3	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	5	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	5	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	5	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	10	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	10	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	10	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	12	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	12	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	12	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	13	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	13	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	13	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	19	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	19	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	19	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	24	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	24	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	24	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	28	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	28	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	28	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	31	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	31	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	31	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	35	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	35	0.24
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	35	0.24
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD21	23	0.24
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD22	23	0.24
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD23	23	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	8	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	8	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	8	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	10	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	10	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	10	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	26	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	26	0.24
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	26	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	1	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	2	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	3	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	6	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	14	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	15	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	17	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	18	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	19	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	21	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	24	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	30	0.24
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	34	0.24
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	30	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	1	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	1	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	1	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	7	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	7	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	7	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	9	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	9	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	9	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	14	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	14	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	14	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	19	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	19	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	19	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	24	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	24	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	24	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	25	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	25	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	25	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	26	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	26	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	26	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	27	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	27	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	27	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	33	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	33	0.24
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	33	0.24
(3,328)	1:p:28:GLU:H	1:p:25:LEU:H	10	0.24
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	28	0.24
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	30	0.24
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	22	0.24
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	22	0.24
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	22	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	19	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	19	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	19	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	22	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	22	0.24
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	22	0.24
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	3	0.24
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	10	0.24
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	15	0.24
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	25	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	3	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	15	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	19	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	24	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	26	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	30	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	31	0.24
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	34	0.24
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	19	0.24
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	19	0.24
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	19	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	6	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	6	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	6	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	7	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	7	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	7	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	14	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	14	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	14	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	19	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	19	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	19	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	33	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	33	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	33	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	34	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	34	0.24
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	34	0.24
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	4	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	4	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	4	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	4	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	5	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	5	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	5	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	12	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	12	0.24
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	12	0.24
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	4	0.24
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	20	0.24
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	26	0.24
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	27	0.24
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	28	0.24
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	9	0.24
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	13	0.24
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	30	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	17	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	17	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	17	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	33	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	33	0.24
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	33	0.24
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	4	0.24
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	8	0.24
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	5	0.24
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	27	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	1	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	3	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	8	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	17	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	18	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	22	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	25	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	29	0.24
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	32	0.24
(3,89)	1:p:10:GLN:H	1:p:10:GLN:HB3	33	0.23
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	2	0.23
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	5	0.23
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	7	0.23
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	28	0.23
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	33	0.23
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	7	0.23
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	15	0.23
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	2	0.23
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	15	0.23
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	21	0.23
(3,639)	1:p:74:LEU:H	1:p:73:GLN:HG3	28	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	6	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	9	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	12	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	14	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	18	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	22	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	24	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	27	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	31	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	32	0.23
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	35	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	5	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	5	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	5	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	8	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	8	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	8	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	16	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	16	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	16	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	17	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	17	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	17	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	18	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	18	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	18	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	22	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	22	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	22	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	23	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	23	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	23	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	27	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	27	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	27	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	28	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	28	0.23
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	28	0.23
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	12	0.23
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	19	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	7	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	7	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	7	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	16	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	16	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	16	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	33	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	33	0.23
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	33	0.23
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	1	0.23
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	1	0.23
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	1	0.23
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	25	0.23
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	25	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	25	0.23
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	20	0.23
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	17	0.23
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	32	0.23
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	32	0.23
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	32	0.23
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	6	0.23
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	4	0.23
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	4	0.23
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	4	0.23
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	22	0.23
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	22	0.23
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	22	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	2	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	2	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	2	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	4	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	4	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	4	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	6	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	6	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	6	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	9	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	9	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	9	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	11	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	11	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	11	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	14	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	14	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	14	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	15	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	15	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	15	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	16	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	16	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	16	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	22	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	22	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	22	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	29	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	29	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	29	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	30	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	30	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	30	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	34	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	34	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	34	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	36	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	36	0.23
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	36	0.23
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD21	31	0.23
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD22	31	0.23
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD23	31	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	27	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	27	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	27	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	35	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	35	0.23
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	35	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	11	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	13	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	23	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	25	0.23
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	31	0.23
(3,347)	1:p:30:GLN:H	1:p:30:GLN:HG3	8	0.23
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	36	0.23
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	28	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	2	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	2	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	2	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	5	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	5	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	5	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	6	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	6	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	6	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	11	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	11	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	11	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	12	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	12	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	12	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	13	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	13	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	13	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	16	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	16	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	16	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	17	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	17	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	17	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	18	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	18	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	18	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	20	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	20	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	20	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	21	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	21	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	21	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	30	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	30	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	30	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	32	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	32	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	32	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	35	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	35	0.23
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	35	0.23
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	10	0.23
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	27	0.23
(3,321)	1:p:28:GLU:H	1:p:28:GLU:HG3	34	0.23
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	12	0.23
(3,314)	1:p:27:LYS:H	1:p:26:GLU:HB2	33	0.23
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	3	0.23
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	3	0.23
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	3	0.23
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	36	0.23
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	36	0.23
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	36	0.23
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	16	0.23
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	18	0.23
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	19	0.23
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	27	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	36	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	1	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	6	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	7	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	8	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	18	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	22	0.23
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	29	0.23
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	7	0.23
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	7	0.23
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	7	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	1	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	1	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	1	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	3	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	3	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	3	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	11	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	11	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	11	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	22	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	22	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	22	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	23	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	23	0.23
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	23	0.23
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	5	0.23
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	9	0.23
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	16	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	9	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	9	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	9	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	15	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	15	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	15	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	16	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	16	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	16	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	20	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	20	0.23
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	20	0.23
(3,232)	1:p:21:GLU:H	1:p:21:GLU:HB3	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,232)	1:p:21:GLU:H	1:p:21:GLU:HB3	31	0.23
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	28	0.23
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	10	0.23
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	25	0.23
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	29	0.23
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	30	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	15	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	15	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	15	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	17	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	17	0.23
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	17	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	1	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	2	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	6	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	10	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	15	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	17	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	29	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	32	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	34	0.23
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	36	0.23
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	12	0.23
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	3	0.23
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	8	0.23
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	11	0.23
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	3	0.23
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD11	3	0.23
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD12	3	0.23
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD13	3	0.23
(3,142)	1:p:14:GLU:H	1:p:14:GLU:HG3	15	0.23
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	34	0.23
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	10	0.23
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	15	0.23
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	5	0.23
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	15	0.23
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	33	0.23
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	19	0.23
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	24	0.23
(3,10)	1:p:2:GLN:H	1:p:2:GLN:HG2	24	0.23
(3,89)	1:p:10:GLN:H	1:p:10:GLN:HB3	20	0.22
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	8	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	15	0.22
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	12	0.22
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	36	0.22
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	3	0.22
(3,655)	1:p:75:LYS:H	1:p:72:ALA:H	17	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	1	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	10	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	11	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	16	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	20	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	29	0.22
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	30	0.22
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD11	12	0.22
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD12	12	0.22
(3,63)	1:p:8:LEU:H	1:p:8:LEU:HD13	12	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	1	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	4	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	6	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	8	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	9	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	10	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	11	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	12	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	13	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	14	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	16	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	18	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	19	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	20	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	22	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	23	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	24	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	27	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	29	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	30	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	31	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	32	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	35	0.22
(3,624)	1:p:73:GLN:H	1:p:73:GLN:HG3	36	0.22
(3,585)	1:p:69:LYS:H	1:p:66:ALA:H	33	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	10	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	10	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	10	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	18	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	18	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	18	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	31	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	31	0.22
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	31	0.22
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	13	0.22
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	13	0.22
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	13	0.22
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	10	0.22
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	29	0.22
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	6	0.22
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	6	0.22
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	6	0.22
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	11	0.22
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	11	0.22
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	11	0.22
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	21	0.22
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	21	0.22
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	21	0.22
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	21	0.22
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	21	0.22
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	21	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	18	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	18	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	18	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	20	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	20	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	20	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	25	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	25	0.22
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	25	0.22
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	29	0.22
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	34	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	5	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	5	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	5	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	13	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	13	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	13	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	22	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	22	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	22	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	29	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	29	0.22
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	29	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	5	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	10	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	16	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	26	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	27	0.22
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	32	0.22
(3,347)	1:p:30:GLN:H	1:p:30:GLN:HG3	29	0.22
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	4	0.22
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	8	0.22
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	11	0.22
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	26	0.22
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	29	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	8	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	8	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	8	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	22	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	22	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	22	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	29	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	29	0.22
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	29	0.22
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	12	0.22
(3,314)	1:p:27:LYS:H	1:p:26:GLU:HB2	4	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	23	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	23	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	23	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	35	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	35	0.22
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	35	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	7	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	8	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	11	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	12	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	26	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	28	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	30	0.22
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	31	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	35	0.22
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	20	0.22
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	20	0.22
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	20	0.22
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	21	0.22
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	27	0.22
(3,269)	1:p:24:GLN:H	1:p:24:GLN:HB3	25	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	4	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	4	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	4	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	8	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	8	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	8	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	13	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	13	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	13	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	15	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	15	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	15	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	17	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	17	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	17	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	28	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	28	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	28	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	29	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	29	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	29	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	30	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	30	0.22
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	30	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	10	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	10	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	10	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	31	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	31	0.22
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	31	0.22
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	35	0.22
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	35	0.22
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	35	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	7	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	13	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	14	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	15	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	16	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	19	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	21	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	23	0.22
(3,206)	1:p:19:GLU:H	1:p:19:GLU:HG3	24	0.22
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	12	0.22
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	14	0.22
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	18	0.22
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	22	0.22
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	25	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	7	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	10	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	14	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	17	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	20	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	25	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	26	0.22
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	34	0.22
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	4	0.22
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	31	0.22
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	33	0.22
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	35	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	13	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	16	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	19	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	23	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	24	0.22
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	30	0.22
(3,160)	1:p:15:LEU:H	1:p:14:GLU:HG2	31	0.22
(3,142)	1:p:14:GLU:H	1:p:14:GLU:HG3	5	0.22
(3,142)	1:p:14:GLU:H	1:p:14:GLU:HG3	28	0.22
(3,142)	1:p:14:GLU:H	1:p:14:GLU:HG3	33	0.22
(3,134)	1:p:13:TRP:H	1:p:12:GLU:HG2	12	0.22
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	12	0.22
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	34	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	1	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	2	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	3	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	6	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	7	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	8	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	9	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	10	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	11	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	14	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	16	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	17	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	18	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	19	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	22	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	23	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	24	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	25	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	26	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	27	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	28	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	29	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	31	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	32	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	35	0.22
(3,118)	1:p:12:GLU:H	1:p:12:GLU:HG3	36	0.22
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	7	0.22
(3,110)	1:p:11:ASN:H	1:p:8:LEU:H	35	0.22
(3,109)	1:p:11:ASN:H	1:p:10:GLN:HG2	33	0.22
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	6	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	6	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	6	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	36	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	36	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	36	0.21
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	6	0.21
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	13	0.21
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	22	0.21
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	27	0.21
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	4	0.21
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	21	0.21
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	29	0.21
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	31	0.21
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	25	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	1	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	8	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	11	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	15	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	16	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	19	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	20	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	25	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	27	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	29	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	30	0.21
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	32	0.21
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	4	0.21
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	8	0.21
(3,638)	1:p:74:LEU:H	1:p:73:GLN:HB2	36	0.21
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	15	0.21
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	15	0.21
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	15	0.21
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	1	0.21
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	1	0.21
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	16	0.21
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	6	0.21
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	6	0.21
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	6	0.21
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	10	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	13	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	13	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	13	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	28	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	28	0.21
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	28	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	3	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	4	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	5	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	9	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	11	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	16	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	17	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	25	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	29	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	30	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	35	0.21
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	36	0.21
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	8	0.21
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	8	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	8	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	1	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	2	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	3	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	4	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	5	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	6	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	8	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	9	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	11	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	14	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	16	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	17	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	19	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	21	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	23	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	27	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	30	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	31	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	34	0.21
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	36	0.21
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	15	0.21
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	1	0.21
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	15	0.21
(3,363)	1:p:31:ALA:H	1:p:30:GLN:HG2	22	0.21
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	14	0.21
(3,358)	1:p:31:ALA:H	1:p:30:GLN:H	8	0.21
(3,358)	1:p:31:ALA:H	1:p:30:GLN:H	29	0.21
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD21	36	0.21
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD22	36	0.21
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD23	36	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	2	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	2	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	2	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	32	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	32	0.21
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	32	0.21
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	12	0.21
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	20	0.21
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	22	0.21
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	29	0.21
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	33	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	35	0.21
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	14	0.21
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	16	0.21
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	32	0.21
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	34	0.21
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	34	0.21
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	34	0.21
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	34	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	5	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	5	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	5	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	10	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	10	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	10	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	27	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	27	0.21
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	27	0.21
(3,298)	1:p:26:GLU:H	1:p:26:GLU:HG3	20	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	1	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	5	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	9	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	13	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	21	0.21
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	24	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	27	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	27	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	27	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	31	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	31	0.21
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	31	0.21
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	12	0.21
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	20	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	27	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	27	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	27	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	28	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	28	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	28	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	32	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	32	0.21
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	32	0.21
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	31	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	2	0.21
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	18	0.21
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	25	0.21
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	4	0.21
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	4	0.21
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	4	0.21
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	13	0.21
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	13	0.21
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	13	0.21
(3,183)	1:p:17:ALA:H	1:p:16:GLN:HG2	7	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	1	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	2	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	6	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	15	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	18	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	22	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	29	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	32	0.21
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	36	0.21
(3,181)	1:p:17:ALA:H	1:p:16:GLN:HB2	21	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	3	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	4	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	5	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	8	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	9	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	11	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	21	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	31	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	33	0.21
(3,166)	1:p:16:GLN:H	1:p:16:GLN:HG3	35	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	3	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	4	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	7	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	10	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	12	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	13	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	14	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	17	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	20	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	21	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	22	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	26	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	27	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	29	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	30	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	31	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	34	0.21
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	36	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD11	31	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD12	31	0.21
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD13	31	0.21
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	4	0.21
(3,132)	1:p:13:TRP:H	1:p:12:GLU:HB2	28	0.21
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	2	0.21
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	2	0.21
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	2	0.21
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	11	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	11	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	11	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	15	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	15	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	15	0.2
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	2	0.2
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	7	0.2
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	10	0.2
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	32	0.2
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	11	0.2
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	16	0.2
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	19	0.2
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	26	0.2
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	35	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	1	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	3	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	4	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	6	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	7	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	8	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	9	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	10	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	11	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	13	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	14	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	15	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	16	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	17	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	19	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	20	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	21	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	24	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	26	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	28	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	29	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	30	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	32	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	34	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	35	0.2
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	36	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	2	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	4	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	7	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	9	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	10	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	17	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	18	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	22	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	23	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	26	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	28	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	31	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	33	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	34	0.2
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	35	0.2
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	24	0.2
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	24	0.2
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	24	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	2	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	17	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	21	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	25	0.2
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	26	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	2	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	2	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	2	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	5	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	5	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	5	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	7	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	7	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	7	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	17	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	17	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	17	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	21	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	21	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	21	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	26	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	26	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	26	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	28	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	28	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	28	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	34	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	34	0.2
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	34	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	1	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	1	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	1	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	13	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	13	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	13	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	15	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	15	0.2
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	15	0.2
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	7	0.2
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	33	0.2
(3,546)	1:p:66:ALA:H	1:p:65:GLN:HG2	17	0.2
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	29	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	11	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	11	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	11	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	35	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	35	0.2
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	35	0.2
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	30	0.2
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	30	0.2
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	30	0.2
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	24	0.2
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	2	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	2	0.2
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	2	0.2
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD11	35	0.2
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD12	35	0.2
(3,519)	1:p:64:LEU:H	1:p:64:LEU:HD13	35	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	4	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	4	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	4	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	7	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	7	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	7	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	9	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	9	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	9	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	12	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	12	0.2
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	12	0.2
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	1	0.2
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	1	0.2
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	1	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	7	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	10	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	12	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	18	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	23	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	24	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	31	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	33	0.2
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	34	0.2
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD21	33	0.2
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD22	33	0.2
(3,454)	1:p:58:ALA:H	1:p:57:LEU:HD23	33	0.2
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD11	7	0.2
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD12	7	0.2
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD13	7	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	7	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	10	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	12	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	13	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	15	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	18	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	20	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	22	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	24	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	26	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	28	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	29	0.2
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	33	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	3	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	6	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	12	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	16	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	20	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	21	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	22	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	25	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	28	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	34	0.2
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	35	0.2
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	32	0.2
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	32	0.2
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	32	0.2
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	4	0.2
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	26	0.2
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	15	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	7	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	7	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	7	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	11	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	11	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	11	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	12	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	12	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	12	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	14	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	14	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	14	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	16	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	16	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	16	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	17	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	17	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	17	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	19	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	19	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	19	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	20	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	20	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	20	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	21	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	21	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	21	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	24	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	24	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	24	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	25	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	25	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	25	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	33	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	33	0.2
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	33	0.2
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	8	0.2
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	6	0.2
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	15	0.2
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	22	0.2
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	33	0.2
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	35	0.2
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD21	10	0.2
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD22	10	0.2
(3,334)	1:p:29:LEU:H	1:p:29:LEU:HD23	10	0.2
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	5	0.2
(3,314)	1:p:27:LYS:H	1:p:26:GLU:HB2	34	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	6	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	6	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	6	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	24	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	24	0.2
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	24	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	8	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	8	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	8	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	11	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	11	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	11	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	26	0.2
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	26	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	26	0.2
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	20	0.2
(3,298)	1:p:26:GLU:H	1:p:26:GLU:HG3	33	0.2
(3,298)	1:p:26:GLU:H	1:p:26:GLU:HG3	34	0.2
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	2	0.2
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	17	0.2
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	5	0.2
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	32	0.2
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	32	0.2
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	32	0.2
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	36	0.2
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	36	0.2
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	36	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	5	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	5	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	5	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	9	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	9	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	9	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	35	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	35	0.2
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	35	0.2
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	10	0.2
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	28	0.2
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	32	0.2
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	35	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	8	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	8	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	8	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	11	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	11	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	11	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	24	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	24	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	24	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	26	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	26	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	26	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	30	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	30	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	30	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	33	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	33	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	33	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	34	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	34	0.2
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	34	0.2
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	12	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	1	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	5	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	6	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	8	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	11	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	22	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	26	0.2
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	32	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	15	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	23	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	24	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	29	0.2
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	30	0.2
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	29	0.2
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	29	0.2
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	29	0.2
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	27	0.2
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	29	0.2
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	29	0.2
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	29	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	13	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	13	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	13	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	17	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	17	0.2
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	17	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	1	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	2	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	6	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	8	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	11	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	18	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	19	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	23	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	24	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	25	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	32	0.2
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	35	0.2
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	21	0.2
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	21	0.2
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	21	0.2
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	13	0.2
(3,109)	1:p:11:ASN:H	1:p:10:GLN:HG2	9	0.2
(3,109)	1:p:11:ASN:H	1:p:10:GLN:HG2	20	0.2
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	2	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	2	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	2	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	10	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	10	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	10	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	33	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	33	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	33	0.19
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	17	0.19
(3,8)	1:p:2:GLN:H	1:p:2:GLN:HB2	25	0.19
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	1	0.19
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	13	0.19
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	21	0.19
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	25	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	2	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	5	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	18	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	22	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	23	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	27	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	31	0.19
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	33	0.19
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	3	0.19
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	5	0.19
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	6	0.19
(3,695)	1:p:79:GLN:H	1:p:79:GLN:HB2	24	0.19
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	35	0.19
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	35	0.19
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	35	0.19
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	3	0.19
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	5	0.19
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	28	0.19
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	33	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,640)	1:p:74:LEU:H	1:p:73:GLN:HG2	34	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	3	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	3	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	3	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	4	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	4	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	4	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	8	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	8	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	8	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	10	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	10	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	10	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	11	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	11	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	11	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	13	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	13	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	13	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	14	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	14	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	14	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	16	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	16	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	16	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	19	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	19	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	19	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	22	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	22	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	22	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	31	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	31	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	31	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	33	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	33	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	33	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	36	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	36	0.19
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	36	0.19
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	15	0.19
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	15	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	6	0.19
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	6	0.19
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	6	0.19
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	1	0.19
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	5	0.19
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	5	0.19
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	5	0.19
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	6	0.19
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	24	0.19
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	29	0.19
(3,546)	1:p:66:ALA:H	1:p:65:GLN:HG2	3	0.19
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	13	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	4	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	4	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	4	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	8	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	8	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	8	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	15	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	15	0.19
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	15	0.19
(3,535)	1:p:65:GLN:H	1:p:64:LEU:HB2	20	0.19
(3,535)	1:p:65:GLN:H	1:p:64:LEU:HB2	26	0.19
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	7	0.19
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	22	0.19
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	27	0.19
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	29	0.19
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	30	0.19
(3,50)	1:p:7:GLU:H	1:p:7:GLU:HB3	34	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	3	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	3	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	3	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	5	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	5	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	5	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	10	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	10	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	10	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	11	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	11	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	11	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	16	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	16	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	16	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	17	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	17	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	17	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	18	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	18	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	18	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	24	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	24	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	24	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	27	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	27	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	27	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	29	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	29	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	29	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	30	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	30	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	30	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	31	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	31	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	31	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	32	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	32	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	32	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	33	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	33	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	33	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	35	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	35	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	35	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	36	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	36	0.19
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	36	0.19
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	1	0.19
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	1	0.19
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	1	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	2	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	6	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	19	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	26	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	27	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	28	0.19
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	32	0.19
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	18	0.19
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	20	0.19
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	25	0.19
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD11	26	0.19
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD12	26	0.19
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD13	26	0.19
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	32	0.19
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	35	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	5	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	9	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	11	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	19	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	23	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	26	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	27	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	29	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	32	0.19
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	33	0.19
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	27	0.19
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	27	0.19
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	27	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	3	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	3	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	3	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	23	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	23	0.19
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	23	0.19
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	10	0.19
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	21	0.19
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	6	0.19
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	10	0.19
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	13	0.19
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	21	0.19
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	25	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	3	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	3	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	3	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	28	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	28	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	28	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	34	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	34	0.19
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	34	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	1	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	3	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	5	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	7	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	9	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	18	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	19	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	21	0.19
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	23	0.19
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	10	0.19
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	4	0.19
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	32	0.19
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	33	0.19
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	35	0.19
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	15	0.19
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	15	0.19
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	15	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	1	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	1	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	1	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	3	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	3	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	3	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	16	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	16	0.19
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	16	0.19
(3,296)	1:p:26:GLU:H	1:p:26:GLU:HB3	23	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	4	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	4	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	4	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	9	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	9	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	9	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	11	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	11	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	11	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	21	0.19
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	21	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	21	0.19
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	12	0.19
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	12	0.19
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	12	0.19
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	14	0.19
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	36	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	10	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	10	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	10	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	32	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	32	0.19
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	32	0.19
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	15	0.19
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	31	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	1	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	1	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	1	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	2	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	2	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	2	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	3	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	3	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	3	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	6	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	6	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	6	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	14	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	14	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	14	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	21	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	21	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	21	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	22	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	22	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	22	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	23	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	23	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	23	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	25	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	25	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	25	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD21	29	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD22	29	0.19
(3,246)	1:p:22:LEU:H	1:p:22:LEU:HD23	29	0.19
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	3	0.19
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	8	0.19
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	20	0.19
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	33	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	3	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	4	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	31	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	34	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	35	0.19
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	36	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	18	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	18	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	18	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	25	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	25	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	25	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	30	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	30	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	30	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	32	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	32	0.19
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	32	0.19
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	15	0.19
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	15	0.19
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	15	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	7	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	7	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	7	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	9	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	9	0.19
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	9	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	24	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	24	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	24	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	25	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	25	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	25	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	30	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	30	0.19
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	30	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	9	0.19
(3,159)	1:p:15:LEU:H	1:p:14:GLU:HG3	16	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	15	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	15	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	15	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	33	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	33	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	33	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	35	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	35	0.19
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	35	0.19
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	21	0.19
(3,133)	1:p:13:TRP:H	1:p:12:GLU:HG3	30	0.19
(3,109)	1:p:11:ASN:H	1:p:10:GLN:HG2	16	0.19
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	6	0.19
(2,12)	1:p:28:GLU:N	1:p:24:GLN:O	20	0.19
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	3	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	3	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	3	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	31	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	31	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	31	0.18
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	27	0.18
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	27	0.18
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	27	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	4	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	8	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	10	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	12	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	14	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	15	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	16	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	19	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	20	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	27	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	29	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	32	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	34	0.18
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	36	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	10	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	10	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	10	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	17	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	17	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	17	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	26	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	26	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	26	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	30	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	30	0.18
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	30	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	1	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	1	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	1	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	6	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	6	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	6	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	9	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	9	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	9	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	18	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	18	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	18	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	20	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	20	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	20	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	23	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	23	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	23	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	24	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	24	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	24	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	25	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	25	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	25	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	27	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	27	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	27	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	29	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	29	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	29	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	35	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	35	0.18
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	35	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	25	0.18
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	25	0.18
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD21	25	0.18
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD22	25	0.18
(3,573)	1:p:68:LYS:H	1:p:67:LEU:HD23	25	0.18
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	6	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	7	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	7	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	7	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	14	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	14	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	14	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	18	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	18	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	18	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	19	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	19	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	19	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	26	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	26	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	26	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	28	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	28	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	28	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	31	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	31	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	31	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	32	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	32	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	32	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	33	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	33	0.18
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	33	0.18
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	2	0.18
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	11	0.18
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	30	0.18
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	35	0.18
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	25	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	12	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	12	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	12	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	17	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	17	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	17	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	21	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	21	0.18
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	21	0.18
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	23	0.18
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	23	0.18
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	23	0.18
(3,535)	1:p:65:GLN:H	1:p:64:LEU:HB2	14	0.18
(3,535)	1:p:65:GLN:H	1:p:64:LEU:HB2	28	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	8	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	18	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	23	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	24	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	31	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	32	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	33	0.18
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	36	0.18
(3,528)	1:p:65:GLN:H	1:p:65:GLN:HB3	17	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	9	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	9	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	9	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	22	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	22	0.18
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	22	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	20	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	20	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	20	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	23	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	23	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	23	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	26	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	26	0.18
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	26	0.18
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	1	0.18
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	8	0.18
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	14	0.18
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	15	0.18
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	21	0.18
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	26	0.18
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	32	0.18
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	36	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	18	0.18
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	18	0.18
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	18	0.18
(3,431)	1:p:56:LYS:H	1:p:55:LYS:HA	25	0.18
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	31	0.18
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	31	0.18
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	31	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	4	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	7	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	10	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	17	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	18	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	31	0.18
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	36	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	5	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	5	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	5	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	11	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	11	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	11	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	21	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	21	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	21	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	31	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	31	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	31	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	35	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	35	0.18
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	35	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	19	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	19	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	19	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	33	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	33	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	33	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	34	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	34	0.18
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	34	0.18
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	25	0.18
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	8	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	1	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	2	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	3	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	9	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	18	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	19	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	24	0.18
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	30	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	1	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	1	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	1	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	6	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	6	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	6	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	18	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	18	0.18
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	18	0.18
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	36	0.18
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	14	0.18
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	12	0.18
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	24	0.18
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	31	0.18
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	17	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	8	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	11	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	16	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	20	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	22	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	26	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	29	0.18
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	36	0.18
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	22	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	18	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	18	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	18	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	25	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	25	0.18
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	25	0.18
(3,298)	1:p:26:GLU:H	1:p:26:GLU:HG3	4	0.18
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	9	0.18
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	16	0.18
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	35	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	7	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	7	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	7	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	16	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	16	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	16	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	18	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	18	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	18	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	36	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	36	0.18
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	36	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	3	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	6	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	8	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	19	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	21	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	22	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	23	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	26	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	29	0.18
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	31	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	18	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	18	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	18	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD21	35	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD22	35	0.18
(3,263)	1:p:23:ALA:H	1:p:22:LEU:HD23	35	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	1	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	6	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	8	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	22	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	26	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	27	0.18
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	30	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	11	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	17	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	22	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	26	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	27	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	32	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	34	0.18
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	36	0.18
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	27	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	1	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	1	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	1	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	3	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	3	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	3	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	8	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	8	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	8	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	11	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	11	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	11	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	23	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	23	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	23	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	28	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	28	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	28	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	34	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	34	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	34	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	36	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	36	0.18
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	36	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	10	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	10	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	10	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	16	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	16	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	16	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	20	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	20	0.18
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	20	0.18
(3,182)	1:p:17:ALA:H	1:p:16:GLN:HG3	28	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	14	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	14	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	14	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	23	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	23	0.18
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	23	0.18
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	3	0.18
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	3	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	3	0.18
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	17	0.18
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	17	0.18
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	17	0.18
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	28	0.18
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	20	0.17
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	20	0.17
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	20	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	16	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	16	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	16	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	18	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	18	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	18	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	22	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	22	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	22	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	2	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	3	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	5	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	6	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	7	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	9	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	11	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	17	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	18	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	22	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	23	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	24	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	26	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	28	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	30	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	31	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	33	0.17
(3,706)	1:p:80:ALA:H	1:p:79:GLN:HA	35	0.17
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	13	0.17
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	13	0.17
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	13	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	8	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	8	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	8	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	15	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	15	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	29	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	29	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	29	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	36	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	36	0.17
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	36	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	3	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	4	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	6	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	7	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	9	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	10	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	14	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	16	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	17	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	18	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	22	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	24	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	26	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	27	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	28	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	29	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	30	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	33	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	34	0.17
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	36	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	12	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	12	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	12	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	30	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	30	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	30	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD21	32	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD22	32	0.17
(3,634)	1:p:74:LEU:H	1:p:74:LEU:HD23	32	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	8	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	9	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	13	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	16	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	18	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	22	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	28	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	34	0.17
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	36	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	18	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	18	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	18	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	31	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	31	0.17
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	31	0.17
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	5	0.17
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	20	0.17
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	25	0.17
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	36	0.17
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	13	0.17
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	25	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	9	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	9	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	9	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	36	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	36	0.17
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	36	0.17
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	36	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	4	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	8	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	9	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	18	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	19	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	21	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	22	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	23	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	27	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	31	0.17
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	32	0.17
(3,545)	1:p:66:ALA:H	1:p:65:GLN:HG3	3	0.17
(3,545)	1:p:66:ALA:H	1:p:65:GLN:HG3	17	0.17
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	1	0.17
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	7	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	13	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	13	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	13	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	15	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	15	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	25	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	25	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	25	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	34	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	34	0.17
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	34	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	2	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	4	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	5	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	11	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	14	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	16	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	20	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	26	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	28	0.17
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	35	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	5	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	5	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	5	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	7	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	7	0.17
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	7	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	11	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	16	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	18	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	20	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	23	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	26	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	32	0.17
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	35	0.17
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	22	0.17
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	22	0.17
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	22	0.17
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	20	0.17
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	22	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	2	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	4	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	5	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	6	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	7	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	8	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	9	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	11	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	12	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	14	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	15	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	16	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	17	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	19	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	22	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	28	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	29	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	30	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	31	0.17
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	34	0.17
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	14	0.17
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	30	0.17
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	2	0.17
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	2	0.17
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	2	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	8	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	8	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	8	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	30	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	30	0.17
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	30	0.17
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	2	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	7	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	7	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	7	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	9	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	9	0.17
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	9	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	5	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	5	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	5	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	6	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	6	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	6	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	9	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	9	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	9	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	11	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	11	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	11	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	12	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	12	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	12	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	16	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	16	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	16	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	27	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	27	0.17
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	27	0.17
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	4	0.17
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	15	0.17
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	9	0.17
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	9	0.17
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	9	0.17
(3,364)	1:p:32:TRP:H	1:p:31:ALA:H	22	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	5	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	5	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	5	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	27	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	27	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	27	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	34	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	34	0.17
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	34	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	7	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	17	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	23	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	28	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	31	0.17
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	35	0.17
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD21	4	0.17
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD22	4	0.17
(3,354)	1:p:30:GLN:H	1:p:29:LEU:HD23	4	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	9	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	9	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	9	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	15	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	15	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	15	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD11	30	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD12	30	0.17
(3,353)	1:p:30:GLN:H	1:p:29:LEU:HD13	30	0.17
(3,350)	1:p:30:GLN:H	1:p:29:LEU:HA	4	0.17
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	17	0.17
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	20	0.17
(3,338)	1:p:29:LEU:H	1:p:28:GLU:HB2	27	0.17
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	28	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	1	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	2	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	3	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	4	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	7	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	8	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	9	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	10	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	12	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	13	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	14	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	15	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	16	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	18	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	19	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	21	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	22	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	29	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	30	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	31	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	34	0.17
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	35	0.17
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	5	0.17
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	12	0.17
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	14	0.17
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	35	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	6	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	14	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	16	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	25	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	26	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	29	0.17
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	36	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	17	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	17	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	17	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	19	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	19	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	19	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	34	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	34	0.17
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	34	0.17
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	28	0.17
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	28	0.17
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	28	0.17
(3,289)	1:p:25:LEU:H	1:p:24:GLN:HG2	12	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	5	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	5	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	5	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	27	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	27	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	27	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	28	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	28	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	28	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	35	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	35	0.17
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	35	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	1	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	11	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	13	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	14	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	15	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	17	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	24	0.17
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	33	0.17
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD11	16	0.17
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD12	16	0.17
(3,262)	1:p:23:ALA:H	1:p:22:LEU:HD13	16	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	3	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	11	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	14	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	21	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	29	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	33	0.17
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	34	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	2	0.17
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	18	0.17
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	23	0.17
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	29	0.17
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	36	0.17
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	1	0.17
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	6	0.17
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	18	0.17
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	9	0.17
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	12	0.17
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	17	0.17
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	20	0.17
(3,225)	1:p:20:LYS:H	1:p:19:GLU:HG3	33	0.17
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	7	0.17
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	14	0.17
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	21	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	6	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	6	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	6	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	24	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	24	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	24	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	33	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	33	0.17
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	33	0.17
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD11	17	0.17
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD12	17	0.17
(3,212)	1:p:19:GLU:H	1:p:18:LEU:HD13	17	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	14	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	14	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	14	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	21	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	21	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	21	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	22	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	22	0.17
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	22	0.17
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	34	0.17
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	7	0.17
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	7	0.17
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	7	0.17
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	3	0.17
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	3	0.17
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD11	31	0.17
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD12	31	0.17
(3,172)	1:p:16:GLN:H	1:p:15:LEU:HD13	31	0.17
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	5	0.17
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	15	0.17
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	5	0.17
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	5	0.17
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	5	0.17
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	5	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	5	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	5	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	17	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	17	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	17	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	23	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	23	0.16
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	23	0.16
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	21	0.16
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	30	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	1	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	1	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	1	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	20	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	20	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	20	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	32	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	32	0.16
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	32	0.16
(3,698)	1:p:79:GLN:H	1:p:78:LEU:HA	12	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	2	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	2	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	2	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	5	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	5	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	5	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	11	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	11	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	11	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	21	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	21	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	21	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	23	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	23	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	23	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	27	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	27	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	27	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	31	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	31	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	31	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	34	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	34	0.16
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	34	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	1	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	2	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	5	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	8	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	11	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	12	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	13	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	15	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	20	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	21	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	23	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	25	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	31	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	32	0.16
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	35	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	1	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	1	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	1	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	9	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	9	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	9	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	26	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	26	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	26	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	32	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	32	0.16
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	32	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	3	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	5	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	6	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	7	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	11	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	17	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	19	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	21	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	24	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	26	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	29	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	30	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	32	0.16
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	35	0.16
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	25	0.16
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	25	0.16
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	25	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	1	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	7	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	9	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	10	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	13	0.16
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	19	0.16
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	10	0.16
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	6	0.16
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	6	0.16
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	6	0.16
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	5	0.16
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	12	0.16
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	34	0.16
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	36	0.16
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	10	0.16
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	15	0.16
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	18	0.16
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	31	0.16
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	33	0.16
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	25	0.16
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	25	0.16
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	25	0.16
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	9	0.16
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	12	0.16
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	19	0.16
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	21	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,530)	1:p:65:GLN:H	1:p:65:GLN:HG3	34	0.16
(3,528)	1:p:65:GLN:H	1:p:65:GLN:HB3	3	0.16
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	15	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	19	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	19	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	19	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	31	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	31	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	31	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	32	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	32	0.16
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	32	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	3	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	4	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	9	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	10	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	27	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	30	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	31	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	33	0.16
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	36	0.16
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	14	0.16
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	14	0.16
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	14	0.16
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	21	0.16
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	21	0.16
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	21	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	1	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	3	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	10	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	13	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	21	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	23	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	24	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	27	0.16
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	35	0.16
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	13	0.16
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	13	0.16
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	13	0.16
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	1	0.16
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	8	0.16
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	24	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	30	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	18	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	18	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	18	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	26	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	26	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	26	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	36	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	36	0.16
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	36	0.16
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	26	0.16
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	26	0.16
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	26	0.16
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	15	0.16
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	33	0.16
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	33	0.16
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	33	0.16
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	16	0.16
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	27	0.16
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	32	0.16
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	6	0.16
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	11	0.16
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	16	0.16
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	22	0.16
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	33	0.16
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	2	0.16
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	13	0.16
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	7	0.16
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	9	0.16
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	23	0.16
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	30	0.16
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	5	0.16
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	23	0.16
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	25	0.16
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	27	0.16
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	33	0.16
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	27	0.16
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	8	0.16
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	15	0.16
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	32	0.16
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	13	0.16
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	13	0.16
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	33	0.16
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	33	0.16
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	33	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	2	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	2	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	2	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	7	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	7	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	7	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	21	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	21	0.16
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	21	0.16
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	7	0.16
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	18	0.16
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	17	0.16
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	25	0.16
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	10	0.16
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	2	0.16
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	7	0.16
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	32	0.16
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	36	0.16
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	11	0.16
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	2	0.16
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	23	0.16
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	24	0.16
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	25	0.16
(3,252)	1:p:22:LEU:H	1:p:21:GLU:HG2	4	0.16
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	2	0.16
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	9	0.16
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	13	0.16
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	19	0.16
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	16	0.16
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	2	0.16
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	2	0.16
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	2	0.16
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	19	0.16
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	19	0.16
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	19	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	4	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	4	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	4	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	10	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	10	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	10	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	13	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	13	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	13	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	16	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	16	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	16	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	19	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	19	0.16
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	19	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	5	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	5	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	5	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	33	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	33	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	33	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	34	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	34	0.16
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	34	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	4	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	4	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	4	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	7	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	7	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	7	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	12	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	12	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	12	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	19	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	19	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	19	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	22	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	22	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	22	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	30	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	30	0.16
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	30	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	7	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	7	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	7	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	10	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	10	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	10	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	12	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	12	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	12	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	22	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	22	0.16
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	22	0.16
(3,10)	1:p:2:GLN:H	1:p:2:GLN:HG2	9	0.16
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	16	0.16
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	16	0.16
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	16	0.16
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	4	0.15
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	4	0.15
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	4	0.15
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	34	0.15
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	34	0.15
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	34	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	14	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	14	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	14	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	28	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	28	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	28	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	19	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	19	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	19	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	25	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	25	0.15
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	25	0.15
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	36	0.15
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	12	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	3	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	3	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	3	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	33	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	33	0.15
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	33	0.15
(3,677)	1:p:77:LYS:H	1:p:76:LYS:HA	19	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	3	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	4	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	6	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	7	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	9	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	13	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	16	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	20	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	21	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	22	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	25	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	27	0.15
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	33	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	7	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	7	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	7	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	19	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	19	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	19	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	24	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	24	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	24	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	29	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	29	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	29	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	35	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	35	0.15
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	35	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	2	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	12	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	14	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	23	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	27	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	31	0.15
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	33	0.15
(3,578)	1:p:69:LYS:H	1:p:69:LYS:HG3	1	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	5	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	5	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	5	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	32	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	32	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	32	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	33	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	33	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	33	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	36	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	36	0.15
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	36	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	6	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	14	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	15	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	26	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	28	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	29	0.15
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	33	0.15
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	15	0.15
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD21	15	0.15
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD22	15	0.15
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD23	15	0.15
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	10	0.15
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	10	0.15
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	10	0.15
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	14	0.15
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	26	0.15
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	28	0.15
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	20	0.15
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	20	0.15
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	32	0.15
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	1	0.15
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	1	0.15
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	1	0.15
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	16	0.15
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	16	0.15
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	16	0.15
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	1	0.15
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	25	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	18	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	18	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	18	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	27	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	27	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	27	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	33	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	33	0.15
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	33	0.15
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	33	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	2	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	5	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	7	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	8	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	12	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	14	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	17	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	19	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	21	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	22	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	24	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	28	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	29	0.15
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	34	0.15
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	1	0.15
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	1	0.15
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	1	0.15
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD11	8	0.15
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD12	8	0.15
(3,493)	1:p:61:LYS:H	1:p:60:LEU:HD13	8	0.15
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	36	0.15
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	6	0.15
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	32	0.15
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	32	0.15
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	32	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	4	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	7	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	10	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	13	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	16	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	19	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	29	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	31	0.15
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	35	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	2	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	5	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	8	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	11	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	16	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	17	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	23	0.15
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	31	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	13	0.15
(3,408)	1:p:54:LYS:H	1:p:53:LEU:HA	14	0.15
(3,400)	1:p:53:LEU:H	1:p:52:ALA:HA	25	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	2	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	2	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	2	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	3	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	3	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	3	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	10	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	10	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	10	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	12	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	12	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	12	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	19	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	19	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	19	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	29	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	29	0.15
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	29	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	22	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	22	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	22	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	28	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	28	0.15
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	28	0.15
(3,397)	1:p:53:LEU:H	1:p:53:LEU:HB2	14	0.15
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	21	0.15
(3,363)	1:p:31:ALA:H	1:p:30:GLN:HG2	29	0.15
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	29	0.15
(3,362)	1:p:31:ALA:H	1:p:30:GLN:HG3	30	0.15
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	18	0.15
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	18	0.15
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	18	0.15
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	4	0.15
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	11	0.15
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	12	0.15
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	33	0.15
(3,358)	1:p:31:ALA:H	1:p:30:GLN:H	22	0.15
(3,348)	1:p:30:GLN:H	1:p:30:GLN:HG2	7	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	1	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	3	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	5	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	12	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	13	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	15	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	20	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	21	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	25	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	29	0.15
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	35	0.15
(3,339)	1:p:29:LEU:H	1:p:28:GLU:HG3	25	0.15
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	2	0.15
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	18	0.15
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	24	0.15
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	34	0.15
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	3	0.15
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	31	0.15
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	5	0.15
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	35	0.15
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	29	0.15
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	29	0.15
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	29	0.15
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	32	0.15
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	9	0.15
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	21	0.15
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	25	0.15
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	28	0.15
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	2	0.15
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	12	0.15
(3,289)	1:p:25:LEU:H	1:p:24:GLN:HG2	20	0.15
(3,289)	1:p:25:LEU:H	1:p:24:GLN:HG2	25	0.15
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	10	0.15
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	10	0.15
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	10	0.15
(3,280)	1:p:25:LEU:H	1:p:25:LEU:HB3	14	0.15
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	4	0.15
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	18	0.15
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	30	0.15
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	34	0.15
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	10	0.15
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	13	0.15
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	32	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	7	0.15
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	18	0.15
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	36	0.15
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	5	0.15
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	3	0.15
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	6	0.15
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	24	0.15
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	33	0.15
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	10	0.15
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	12	0.15
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	12	0.15
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	12	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	2	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	3	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	13	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	14	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	17	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	22	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	23	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	25	0.15
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	29	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	1	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	1	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	1	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	2	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	2	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	2	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	6	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	6	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	6	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	8	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	8	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	8	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	18	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	18	0.15
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	18	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	7	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	7	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	7	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	16	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	16	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	18	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	18	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	18	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	31	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	31	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	31	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	35	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	35	0.15
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	35	0.15
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	17	0.15
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	33	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	1	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	1	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	1	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	3	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	3	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	3	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	8	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	8	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	8	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	16	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	16	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	16	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	17	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	17	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	17	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	31	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	31	0.15
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	31	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	13	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	13	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	13	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	16	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	16	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	16	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	20	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	20	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	20	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	26	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	26	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	26	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	27	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	27	0.15
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	27	0.15
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	20	0.15
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	8	0.14
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	8	0.14
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	8	0.14
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	12	0.14
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	12	0.14
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	12	0.14
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	1	0.14
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	7	0.14
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	12	0.14
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	19	0.14
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	35	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	4	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	4	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	4	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	21	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	21	0.14
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	21	0.14
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	5	0.14
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	28	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	14	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	14	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	14	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	18	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	18	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	18	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	22	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	22	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	22	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	25	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	25	0.14
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	25	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	6	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	6	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	6	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	7	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	7	0.14
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	7	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	1	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	10	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	14	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	17	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	24	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	26	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	28	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	30	0.14
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	34	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	21	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	21	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	21	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	30	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	30	0.14
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	30	0.14
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	13	0.14
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	10	0.14
(3,581)	1:p:69:LYS:H	1:p:68:LYS:HA	20	0.14
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	15	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	7	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	7	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	7	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	13	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	13	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	13	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	19	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	19	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	19	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	28	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	28	0.14
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	28	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	4	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	8	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	18	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	31	0.14
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	32	0.14
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	20	0.14
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	20	0.14
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	20	0.14
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	7	0.14
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	9	0.14
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	32	0.14
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	6	0.14
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	16	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	22	0.14
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	27	0.14
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	30	0.14
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	36	0.14
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD11	36	0.14
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD12	36	0.14
(3,536)	1:p:65:GLN:H	1:p:64:LEU:HD13	36	0.14
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	6	0.14
(3,522)	1:p:64:LEU:H	1:p:63:LYS:HA	13	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	3	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	3	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	3	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	29	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	29	0.14
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	29	0.14
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	32	0.14
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	6	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	6	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	6	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	6	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	15	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	15	0.14
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	15	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	13	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	13	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	13	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	28	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	28	0.14
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	28	0.14
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	8	0.14
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	9	0.14
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	16	0.14
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	17	0.14
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	28	0.14
(3,462)	1:p:59:GLN:H	1:p:59:GLN:HG3	13	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	5	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	20	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	28	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	32	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	33	0.14
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	36	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	17	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	17	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	17	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	21	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	21	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	21	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	26	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	26	0.14
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	26	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	26	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	26	0.14
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	26	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	1	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	2	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	3	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	8	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	12	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	14	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	15	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	17	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	21	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	22	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	25	0.14
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	30	0.14
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	12	0.14
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	18	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	1	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	1	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	1	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	32	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	32	0.14
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	32	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	4	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	4	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	4	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	16	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	16	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	16	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	22	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	22	0.14
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	22	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	15	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	15	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	20	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	20	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	20	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	21	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	21	0.14
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	21	0.14
(3,387)	1:p:48:TYR:H	1:p:47:LEU:HB3	32	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	26	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	26	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	26	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	32	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	32	0.14
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	32	0.14
(3,363)	1:p:31:ALA:H	1:p:30:GLN:HG2	8	0.14
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	5	0.14
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	26	0.14
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	36	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	2	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	4	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	8	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	17	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	19	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	24	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	26	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	31	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	32	0.14
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	36	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	1	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	3	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	17	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	19	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	21	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	27	0.14
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	31	0.14
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	24	0.14
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	10	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	1	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	2	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	7	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	9	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	11	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	13	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	19	0.14
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	21	0.14
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	16	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	12	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	12	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	12	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	25	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	25	0.14
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	25	0.14
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	9	0.14
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	9	0.14
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	9	0.14
(3,303)	1:p:26:GLU:H	1:p:25:LEU:HB2	30	0.14
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	1	0.14
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	14	0.14
(3,287)	1:p:25:LEU:H	1:p:24:GLN:HB2	4	0.14
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	8	0.14
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	8	0.14
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	8	0.14
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	3	0.14
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	3	0.14
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	3	0.14
(3,280)	1:p:25:LEU:H	1:p:25:LEU:HB3	29	0.14
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	27	0.14
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	2	0.14
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	16	0.14
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	23	0.14
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	28	0.14
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	33	0.14
(3,267)	1:p:23:ALA:H	1:p:20:LYS:HA	4	0.14
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	9	0.14
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	16	0.14
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	27	0.14
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	35	0.14
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	1	0.14
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	25	0.14
(3,23)	1:p:4:LEU:HA	1:p:7:GLU:HB3	34	0.14
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	28	0.14
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	5	0.14
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	4	0.14
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	21	0.14
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	23	0.14
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	28	0.14
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	12	0.14
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	16	0.14
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	22	0.14
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	26	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	1	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	4	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	7	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	8	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	10	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	12	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	15	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	16	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	19	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	21	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	30	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	31	0.14
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	35	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	5	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	5	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	5	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	9	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	9	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	9	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	11	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	11	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	11	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	28	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	28	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	28	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	32	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	32	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	32	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	36	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	36	0.14
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	36	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	10	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	10	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	10	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	14	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	14	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	14	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	19	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	19	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	19	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	23	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	23	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	23	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	27	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	27	0.14
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	27	0.14
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	15	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	10	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	10	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	10	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	18	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	18	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	18	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	35	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	35	0.14
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	35	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	19	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	19	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	19	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	34	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	34	0.14
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	34	0.14
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	12	0.14
(3,106)	1:p:11:ASN:H	1:p:10:GLN:HB3	33	0.14
(2,5)	1:p:14:GLU:N	1:p:10:GLN:O	16	0.14
(2,12)	1:p:28:GLU:N	1:p:24:GLN:O	5	0.14
(2,12)	1:p:28:GLU:N	1:p:24:GLN:O	35	0.14
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	34	0.14
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	13	0.13
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	21	0.13
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	30	0.13
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	24	0.13
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	26	0.13
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	29	0.13
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	32	0.13
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	34	0.13
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	16	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	16	0.13
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	16	0.13
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	28	0.13
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	28	0.13
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	28	0.13
(3,7)	1:p:2:GLN:H	1:p:2:GLN:HB3	33	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	2	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	8	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	10	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	11	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	13	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	15	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	21	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	26	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	30	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	35	0.13
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	36	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	4	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	4	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	4	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	13	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	13	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	13	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	16	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	16	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	16	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	19	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	19	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	19	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	20	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	20	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	20	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	32	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	32	0.13
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	32	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	9	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	9	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	9	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	28	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	28	0.13
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	28	0.13
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,591)	1:p:70:LYS:H	1:p:70:LYS:HG2	14	0.13
(3,591)	1:p:70:LYS:H	1:p:70:LYS:HG2	35	0.13
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	1	0.13
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	10	0.13
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	13	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	9	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	9	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	9	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	14	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	14	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	14	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	26	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	26	0.13
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	26	0.13
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	2	0.13
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	11	0.13
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	23	0.13
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	30	0.13
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	20	0.13
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	18	0.13
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	19	0.13
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	31	0.13
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	33	0.13
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	26	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	2	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	4	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	5	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	8	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	9	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	19	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	23	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	24	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	26	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	28	0.13
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	35	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	4	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	4	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	4	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	5	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	5	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	5	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	8	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	8	0.13
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	8	0.13
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	10	0.13
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	10	0.13
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	10	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	1	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	5	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	6	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	7	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	9	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	19	0.13
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	35	0.13
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	1	0.13
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	13	0.13
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	19	0.13
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	34	0.13
(3,490)	1:p:61:LYS:H	1:p:60:LEU:HA	1	0.13
(3,489)	1:p:61:LYS:H	1:p:61:LYS:HG2	34	0.13
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	19	0.13
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	19	0.13
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	19	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	27	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	27	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	27	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	34	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	34	0.13
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	34	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	1	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	2	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	3	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	4	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	5	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	6	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	11	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	12	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	13	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	15	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	18	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	20	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	21	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	24	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	26	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	27	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	30	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	34	0.13
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	35	0.13
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	27	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	1	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	1	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	1	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	3	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	3	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	3	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	7	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	7	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	7	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	9	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	9	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	9	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	13	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	13	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	13	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	16	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	16	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	16	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	23	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	23	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	23	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	34	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	34	0.13
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	34	0.13
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	25	0.13
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	25	0.13
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	25	0.13
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	23	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	1	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	4	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	9	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	10	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	15	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	27	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	28	0.13
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	34	0.13
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	17	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	17	0.13
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	17	0.13
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	17	0.13
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	17	0.13
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	17	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	31	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	31	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	31	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	35	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	35	0.13
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	35	0.13
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	13	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	6	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	6	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	6	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	11	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	11	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	11	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	20	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	20	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	20	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	28	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	28	0.13
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	28	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	12	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	12	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	12	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	35	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	35	0.13
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	35	0.13
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	20	0.13
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	9	0.13
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	18	0.13
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	23	0.13
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	8	0.13
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	13	0.13
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	15	0.13
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	25	0.13
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	2	0.13
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	6	0.13
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	15	0.13
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	25	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	10	0.13
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	17	0.13
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	18	0.13
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	24	0.13
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	27	0.13
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	25	0.13
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	32	0.13
(3,312)	1:p:27:LYS:H	1:p:26:GLU:HA	34	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	2	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	2	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	2	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	31	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	31	0.13
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	31	0.13
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	2	0.13
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	13	0.13
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	17	0.13
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	23	0.13
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	24	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	1	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	1	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	1	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	2	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	2	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	2	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	17	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	17	0.13
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	17	0.13
(3,272)	1:p:24:GLN:H	1:p:24:GLN:HG2	28	0.13
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	5	0.13
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	13	0.13
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	17	0.13
(3,259)	1:p:23:ALA:H	1:p:22:LEU:HA	19	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	10	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	13	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	17	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	19	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	20	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	22	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	26	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	28	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	29	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	32	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	33	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	34	0.13
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	36	0.13
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	17	0.13
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	30	0.13
(3,224)	1:p:20:LYS:H	1:p:19:GLU:HB2	10	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	7	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	13	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	14	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	19	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	21	0.13
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	35	0.13
(3,220)	1:p:20:LYS:H	1:p:20:LYS:HG2	19	0.13
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	10	0.13
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	15	0.13
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	30	0.13
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	9	0.13
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	9	0.13
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	9	0.13
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	10	0.13
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	14	0.13
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	21	0.13
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	27	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	2	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	2	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	2	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	35	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	35	0.13
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	35	0.13
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	18	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	20	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	20	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	20	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	27	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	27	0.13
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	27	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	2	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	2	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	2	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	4	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	4	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	8	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	8	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	8	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	15	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	15	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	15	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	21	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	21	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	21	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	22	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	22	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	22	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	25	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	25	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	25	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	28	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	28	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	28	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	29	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	29	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	29	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	30	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	30	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	30	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	36	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	36	0.13
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	36	0.13
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	35	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	13	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	13	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	13	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	34	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	34	0.13
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	34	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	1	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	1	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	1	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	2	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	2	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	2	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	6	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	6	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	6	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	9	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	9	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	9	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	11	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	11	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	11	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	14	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	14	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	14	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	18	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	18	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	18	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	32	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	32	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	32	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	36	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	36	0.13
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	36	0.13
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	17	0.13
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	22	0.13
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	27	0.13
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	34	0.13
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	27	0.13
(2,9)	1:p:22:LEU:N	1:p:18:LEU:O	12	0.13
(2,5)	1:p:14:GLU:N	1:p:10:GLN:O	9	0.13
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	3	0.13
(2,13)	1:p:30:GLN:N	1:p:26:GLU:O	34	0.13
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	7	0.13
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	2	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	3	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	4	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	6	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	12	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	19	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	23	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	31	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	34	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	35	0.12
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	13	0.12
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	13	0.12
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	4	0.12
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	9	0.12
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	13	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	1	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	3	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	4	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	5	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	9	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	14	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	16	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	17	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	18	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	19	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	20	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	23	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	24	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	27	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	28	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	29	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	31	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	32	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	33	0.12
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	34	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	9	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	9	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	9	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	28	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	28	0.12
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	28	0.12
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	16	0.12
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	16	0.12
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	16	0.12
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	9	0.12
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	25	0.12
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	33	0.12
(3,673)	1:p:77:LYS:H	1:p:77:LYS:HB3	29	0.12
(3,665)	1:p:76:LYS:H	1:p:76:LYS:HG2	29	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	1	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	2	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	4	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	6	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	7	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	9	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	12	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	13	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	15	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	19	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	20	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	21	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	25	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	26	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	28	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	32	0.12
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	34	0.12
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	25	0.12
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	13	0.12
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	13	0.12
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	13	0.12
(3,591)	1:p:70:LYS:H	1:p:70:LYS:HG2	26	0.12
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	9	0.12
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	28	0.12
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD11	1	0.12
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD12	1	0.12
(3,572)	1:p:68:LYS:H	1:p:67:LEU:HD13	1	0.12
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	16	0.12
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	22	0.12
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	27	0.12
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	35	0.12
(3,567)	1:p:68:LYS:H	1:p:68:LYS:HG2	15	0.12
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	5	0.12
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	19	0.12
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	29	0.12
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD11	29	0.12
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD12	29	0.12
(3,554)	1:p:67:LEU:H	1:p:67:LEU:HD13	29	0.12
(3,553)	1:p:67:LEU:H	1:p:67:LEU:HB2	5	0.12
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	10	0.12
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	14	0.12
(3,548)	1:p:66:ALA:H	1:p:64:LEU:HA	28	0.12
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	11	0.12
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	14	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	10	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	10	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	10	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	11	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	11	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	11	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	23	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	23	0.12
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	23	0.12
(3,531)	1:p:65:GLN:H	1:p:65:GLN:HG2	6	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	24	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	24	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	24	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	25	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	25	0.12
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	25	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	16	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	20	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	25	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	26	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	29	0.12
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	30	0.12
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	15	0.12
(3,509)	1:p:63:LYS:H	1:p:62:TRP:HA	25	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	10	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	10	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	10	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	32	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	32	0.12
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	32	0.12
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	1	0.12
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	2	0.12
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	21	0.12
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	22	0.12
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD21	25	0.12
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD22	25	0.12
(3,494)	1:p:61:LYS:H	1:p:60:LEU:HD23	25	0.12
(3,490)	1:p:61:LYS:H	1:p:60:LEU:HA	19	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	9	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	9	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	9	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	11	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	11	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	35	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	35	0.12
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	35	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	10	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	14	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	19	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	22	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	23	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	25	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	31	0.12
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	32	0.12
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	11	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	2	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	2	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	2	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	4	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	4	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	4	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	5	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	5	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	5	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	6	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	6	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	6	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	10	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	10	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	10	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	12	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	12	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	12	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	27	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	27	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	27	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	28	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	28	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	28	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	30	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	30	0.12
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	30	0.12
(3,450)	1:p:58:ALA:H	1:p:57:LEU:HA	33	0.12
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	6	0.12
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	32	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	7	0.12
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	7	0.12
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	7	0.12
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	9	0.12
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	18	0.12
(3,42)	1:p:6:LYS:H	1:p:5:GLU:HA	34	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	3	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	7	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	13	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	19	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	20	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	22	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	24	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	26	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	32	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	33	0.12
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	36	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	4	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	4	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	4	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	29	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	29	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	29	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	36	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	36	0.12
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	36	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	20	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	20	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	20	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	33	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	33	0.12
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	33	0.12
(3,400)	1:p:53:LEU:H	1:p:52:ALA:HA	1	0.12
(3,400)	1:p:53:LEU:H	1:p:52:ALA:HA	19	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	6	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	6	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	6	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	15	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	15	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	15	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	28	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	28	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	28	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	34	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	34	0.12
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	34	0.12
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	2	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	24	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	24	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	24	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	36	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	36	0.12
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	36	0.12
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	2	0.12
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	17	0.12
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	20	0.12
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	23	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	3	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	3	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	3	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	7	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	7	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	7	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	22	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	22	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	22	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	30	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	30	0.12
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	30	0.12
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	8	0.12
(3,359)	1:p:31:ALA:H	1:p:30:GLN:HA	29	0.12
(3,348)	1:p:30:GLN:H	1:p:30:GLN:HG2	28	0.12
(3,340)	1:p:29:LEU:H	1:p:28:GLU:HG2	7	0.12
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	10	0.12
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	11	0.12
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	26	0.12
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	6	0.12
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	32	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	7	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	9	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	13	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	17	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	18	0.12
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	23	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	31	0.12
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	23	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	9	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	10	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	15	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	22	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	26	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	29	0.12
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	36	0.12
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD21	29	0.12
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD22	29	0.12
(3,305)	1:p:26:GLU:H	1:p:25:LEU:HD23	29	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	13	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	13	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	13	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	17	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	17	0.12
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	17	0.12
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	10	0.12
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	23	0.12
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	24	0.12
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	27	0.12
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	11	0.12
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	13	0.12
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	19	0.12
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	20	0.12
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD21	30	0.12
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD22	30	0.12
(3,283)	1:p:25:LEU:H	1:p:25:LEU:HD23	30	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	22	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	22	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	22	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	34	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	34	0.12
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	34	0.12
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	35	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	1	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	3	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	4	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	6	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	7	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	11	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	12	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	14	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	18	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	21	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	23	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	24	0.12
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	30	0.12
(3,238)	1:p:21:GLU:H	1:p:20:LYS:HB3	9	0.12
(3,238)	1:p:21:GLU:H	1:p:20:LYS:HB3	35	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	7	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	8	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	12	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	13	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	14	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	19	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	22	0.12
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	32	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	9	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	15	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	23	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	24	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	25	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	29	0.12
(3,222)	1:p:20:LYS:H	1:p:19:GLU:HA	30	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	1	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	2	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	6	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	8	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	18	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	25	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	26	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	29	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	31	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	32	0.12
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	33	0.12
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	7	0.12
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	13	0.12
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	17	0.12
(3,209)	1:p:19:GLU:H	1:p:18:LEU:HA	19	0.12
(3,195)	1:p:18:LEU:H	1:p:17:ALA:HA	15	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	1	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	1	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	3	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	3	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	3	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	5	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	5	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	5	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	6	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	6	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	6	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	8	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	8	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	8	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	24	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	24	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	24	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	30	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	30	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	30	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	32	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	32	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	32	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	34	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	34	0.12
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	34	0.12
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	14	0.12
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	14	0.12
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	14	0.12
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	24	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	12	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	12	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	12	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	22	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	22	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	22	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	26	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	26	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	26	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD21	34	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD22	34	0.12
(3,173)	1:p:16:GLN:H	1:p:15:LEU:HD23	34	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	1	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	1	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	1	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	6	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	6	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	6	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	20	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	20	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	20	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	24	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	24	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	24	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	26	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	26	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	26	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	32	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	32	0.12
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	32	0.12
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	3	0.12
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	21	0.12
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	28	0.12
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	31	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	4	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	4	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	4	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	5	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	5	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	5	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	8	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	8	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	8	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	23	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	23	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	23	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	24	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	24	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	24	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	25	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	25	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	25	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	29	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	29	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	29	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	30	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	30	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	30	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	31	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	31	0.12
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	31	0.12
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	21	0.12
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	1	0.12
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	26	0.12
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	32	0.12
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	36	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	10	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	14	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	17	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	18	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	22	0.12
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	36	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	11	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	11	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	11	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	24	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	24	0.12
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	24	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	1	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	3	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	12	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	13	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	16	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	17	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	19	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	22	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	30	0.12
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	35	0.12
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	1	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	7	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	8	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	11	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	14	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	17	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	18	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	22	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	24	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	25	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	26	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	29	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	32	0.11
(3,92)	1:p:10:GLN:H	1:p:10:GLN:HG2	36	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	8	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	8	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	8	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD21	16	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD22	16	0.11
(3,83)	1:p:9:ALA:H	1:p:8:LEU:HD23	16	0.11
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD11	25	0.11
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD12	25	0.11
(3,82)	1:p:9:ALA:H	1:p:8:LEU:HD13	25	0.11
(3,81)	1:p:9:ALA:H	1:p:8:LEU:HB2	25	0.11
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	8	0.11
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	14	0.11
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	17	0.11
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	22	0.11
(3,79)	1:p:9:ALA:H	1:p:8:LEU:HA	23	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	6	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	6	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	6	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	7	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	7	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	7	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	24	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	24	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	24	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	26	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	26	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	26	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD11	35	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD12	35	0.11
(3,701)	1:p:79:GLN:H	1:p:78:LEU:HD13	35	0.11
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	6	0.11
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	7	0.11
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	22	0.11
(3,688)	1:p:78:LEU:H	1:p:77:LYS:HA	25	0.11
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	6	0.11
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	6	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	6	0.11
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD21	7	0.11
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD22	7	0.11
(3,687)	1:p:78:LEU:H	1:p:78:LEU:HD23	7	0.11
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD11	4	0.11
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD12	4	0.11
(3,686)	1:p:78:LEU:H	1:p:78:LEU:HD13	4	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	7	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	8	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	11	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	15	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	17	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	18	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	19	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	20	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	22	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	23	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	26	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	27	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	28	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	29	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	32	0.11
(3,68)	1:p:8:LEU:H	1:p:7:GLU:HB2	36	0.11
(3,662)	1:p:76:LYS:H	1:p:76:LYS:HB3	29	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	3	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	5	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	8	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	10	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	11	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	14	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	16	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	17	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	18	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	22	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	23	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	24	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	27	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	29	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	30	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	31	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	33	0.11
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	35	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,652)	1:p:75:LYS:H	1:p:74:LEU:HA	36	0.11
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	1	0.11
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	2	0.11
(3,649)	1:p:75:LYS:H	1:p:75:LYS:HG3	12	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	4	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	4	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	4	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD21	10	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD22	10	0.11
(3,64)	1:p:8:LEU:H	1:p:8:LEU:HD23	10	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	4	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	8	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	10	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	11	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	12	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	14	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	16	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	18	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	22	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	31	0.11
(3,636)	1:p:74:LEU:H	1:p:73:GLN:HA	36	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	2	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	5	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	15	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	21	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	26	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	28	0.11
(3,627)	1:p:73:GLN:H	1:p:72:ALA:HA	34	0.11
(3,605)	1:p:71:ASN:H	1:p:70:LYS:HA	4	0.11
(3,605)	1:p:71:ASN:H	1:p:70:LYS:HA	36	0.11
(3,593)	1:p:70:LYS:H	1:p:69:LYS:HA	5	0.11
(3,586)	1:p:69:LYS:H	1:p:66:ALA:HA	6	0.11
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	11	0.11
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	18	0.11
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	32	0.11
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	34	0.11
(3,579)	1:p:69:LYS:H	1:p:69:LYS:HG2	35	0.11
(3,571)	1:p:68:LYS:H	1:p:67:LEU:HB2	16	0.11
(3,57)	1:p:7:GLU:H	1:p:6:LYS:HB2	4	0.11
(3,57)	1:p:7:GLU:H	1:p:6:LYS:HB2	8	0.11
(3,57)	1:p:7:GLU:H	1:p:6:LYS:HB2	21	0.11
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	3	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,569)	1:p:68:LYS:H	1:p:67:LEU:HA	24	0.11
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	9	0.11
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	14	0.11
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	26	0.11
(3,557)	1:p:67:LEU:H	1:p:66:ALA:HA	28	0.11
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD21	16	0.11
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD22	16	0.11
(3,555)	1:p:67:LEU:H	1:p:67:LEU:HD23	16	0.11
(3,544)	1:p:66:ALA:H	1:p:65:GLN:HB2	12	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	9	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	9	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	9	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD21	35	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD22	35	0.11
(3,537)	1:p:65:GLN:H	1:p:64:LEU:HD23	35	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	6	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	6	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	6	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	15	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	15	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	15	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD21	34	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD22	34	0.11
(3,520)	1:p:64:LEU:H	1:p:64:LEU:HD23	34	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	4	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	8	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	10	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	11	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	13	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	14	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	17	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	18	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	21	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	22	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	27	0.11
(3,52)	1:p:7:GLU:H	1:p:7:GLU:HG3	36	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	25	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	25	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	25	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB1	34	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB2	34	0.11
(3,5)	1:p:50:ASP:H	1:p:52:ALA:HB3	34	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	3	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	5	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	7	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	8	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	11	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	13	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	14	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	15	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	17	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	23	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	25	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	28	0.11
(3,499)	1:p:62:TRP:H	1:p:61:LYS:HA	30	0.11
(3,490)	1:p:61:LYS:H	1:p:60:LEU:HA	14	0.11
(3,489)	1:p:61:LYS:H	1:p:61:LYS:HG2	20	0.11
(3,478)	1:p:60:LEU:H	1:p:59:GLN:HB2	33	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	6	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	8	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	12	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	16	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	17	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	20	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	26	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	27	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	28	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	35	0.11
(3,476)	1:p:60:LEU:H	1:p:59:GLN:HA	36	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	2	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	2	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	2	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	10	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	10	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	10	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	18	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	18	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	18	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	25	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	25	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	25	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	26	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	26	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	26	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	34	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	34	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	34	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD21	36	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD22	36	0.11
(3,474)	1:p:60:LEU:H	1:p:60:LEU:HD23	36	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	3	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	3	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	3	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	5	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	5	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	5	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	17	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	17	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	17	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	23	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	23	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	23	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	26	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	26	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	26	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD11	33	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD12	33	0.11
(3,473)	1:p:60:LEU:H	1:p:60:LEU:HD13	33	0.11
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	7	0.11
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	29	0.11
(3,463)	1:p:59:GLN:H	1:p:59:GLN:HG2	33	0.11
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	26	0.11
(3,46)	1:p:6:LYS:H	1:p:5:GLU:HG2	34	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	11	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	11	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	11	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	15	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	15	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	15	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	19	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	19	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	19	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	22	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	22	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	22	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD11	29	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD12	29	0.11
(3,453)	1:p:58:ALA:H	1:p:57:LEU:HD13	29	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	5	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	20	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	27	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	28	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	33	0.11
(3,45)	1:p:6:LYS:H	1:p:5:GLU:HG3	34	0.11
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD21	20	0.11
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD22	20	0.11
(3,442)	1:p:57:LEU:H	1:p:57:LEU:HD23	20	0.11
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD11	33	0.11
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD12	33	0.11
(3,441)	1:p:57:LEU:H	1:p:57:LEU:HD13	33	0.11
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	6	0.11
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	21	0.11
(3,416)	1:p:55:LYS:H	1:p:55:LYS:HB3	35	0.11
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD21	1	0.11
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD22	1	0.11
(3,412)	1:p:54:LYS:H	1:p:53:LEU:HD23	1	0.11
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD11	15	0.11
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD12	15	0.11
(3,411)	1:p:54:LYS:H	1:p:53:LEU:HD13	15	0.11
(3,400)	1:p:53:LEU:H	1:p:52:ALA:HA	5	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	20	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	20	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	20	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	23	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	23	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	23	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD21	33	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD22	33	0.11
(3,399)	1:p:53:LEU:H	1:p:53:LEU:HD23	33	0.11
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD11	8	0.11
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD12	8	0.11
(3,398)	1:p:53:LEU:H	1:p:53:LEU:HD13	8	0.11
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	1	0.11
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	8	0.11
(3,396)	1:p:53:LEU:H	1:p:53:LEU:HB3	30	0.11
(3,386)	1:p:48:TYR:H	1:p:47:LEU:HA	29	0.11
(3,385)	1:p:48:TYR:H	1:p:48:TYR:HB2	10	0.11
(3,379)	1:p:47:LEU:H	1:p:47:LEU:HD21	32	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,379)	1:p:47:LEU:H	1:p:47:LEU:HD22	32	0.11
(3,379)	1:p:47:LEU:H	1:p:47:LEU:HD23	32	0.11
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD21	25	0.11
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD22	25	0.11
(3,37)	1:p:5:GLU:H	1:p:4:LEU:HD23	25	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	3	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	4	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	9	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	19	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	28	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	31	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	35	0.11
(3,361)	1:p:31:ALA:H	1:p:30:GLN:HB2	36	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	1	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	1	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	1	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	4	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	4	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	4	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	8	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	8	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	8	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	13	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	13	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	13	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD11	19	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD12	19	0.11
(3,36)	1:p:5:GLU:H	1:p:4:LEU:HD13	19	0.11
(3,348)	1:p:30:GLN:H	1:p:30:GLN:HG2	8	0.11
(3,348)	1:p:30:GLN:H	1:p:30:GLN:HG2	24	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	4	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	5	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	6	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	12	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	16	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	22	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	29	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	32	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	35	0.11
(3,336)	1:p:29:LEU:H	1:p:28:GLU:HA	36	0.11
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	11	0.11
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	28	0.11
(3,33)	1:p:5:GLU:H	1:p:4:LEU:HA	36	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	1	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	3	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	19	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	21	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	24	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	28	0.11
(3,324)	1:p:28:GLU:H	1:p:27:LYS:HA	30	0.11
(3,316)	1:p:27:LYS:H	1:p:26:GLU:HG2	30	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	6	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	8	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	11	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	14	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	27	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	28	0.11
(3,315)	1:p:27:LYS:H	1:p:26:GLU:HG3	31	0.11
(3,312)	1:p:27:LYS:H	1:p:26:GLU:HA	10	0.11
(3,312)	1:p:27:LYS:H	1:p:26:GLU:HA	27	0.11
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD11	24	0.11
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD12	24	0.11
(3,304)	1:p:26:GLU:H	1:p:25:LEU:HD13	24	0.11
(3,302)	1:p:26:GLU:H	1:p:25:LEU:HB3	14	0.11
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	8	0.11
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	11	0.11
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	16	0.11
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	26	0.11
(3,301)	1:p:26:GLU:H	1:p:25:LEU:HA	36	0.11
(3,290)	1:p:25:LEU:H	1:p:23:ALA:H	21	0.11
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD11	19	0.11
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD12	19	0.11
(3,282)	1:p:25:LEU:H	1:p:25:LEU:HD13	19	0.11
(3,274)	1:p:24:GLN:H	1:p:23:ALA:HA	5	0.11
(3,271)	1:p:24:GLN:H	1:p:24:GLN:HG3	9	0.11
(3,267)	1:p:23:ALA:H	1:p:20:LYS:HA	35	0.11
(3,264)	1:p:23:ALA:HA	1:p:26:GLU:HB3	12	0.11
(3,252)	1:p:22:LEU:H	1:p:21:GLU:HG2	15	0.11
(3,252)	1:p:22:LEU:H	1:p:21:GLU:HG2	31	0.11
(3,250)	1:p:22:LEU:H	1:p:21:GLU:HB2	12	0.11
(3,250)	1:p:22:LEU:H	1:p:21:GLU:HB2	20	0.11
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	2	0.11
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	25	0.11
(3,248)	1:p:22:LEU:H	1:p:21:GLU:HA	31	0.11
(3,238)	1:p:21:GLU:H	1:p:20:LYS:HB3	4	0.11
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	21	0.11
(3,235)	1:p:21:GLU:H	1:p:21:GLU:HG2	26	0.11
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	5	0.11
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	10	0.11
(3,226)	1:p:20:LYS:H	1:p:19:GLU:HG2	35	0.11
(3,220)	1:p:20:LYS:H	1:p:20:LYS:HG2	35	0.11
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	11	0.11
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	16	0.11
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	22	0.11
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	34	0.11
(3,219)	1:p:20:LYS:H	1:p:20:LYS:HG3	36	0.11
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD21	20	0.11
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD22	20	0.11
(3,213)	1:p:19:GLU:H	1:p:18:LEU:HD23	20	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	11	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	11	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	11	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	18	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	18	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	18	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	23	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	23	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	23	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	25	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	25	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	25	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	28	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	28	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	28	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	29	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	29	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	29	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	33	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	33	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	33	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD21	36	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD22	36	0.11
(3,193)	1:p:18:LEU:H	1:p:18:LEU:HD23	36	0.11
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	4	0.11
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	4	0.11
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD11	25	0.11
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD12	25	0.11
(3,192)	1:p:18:LEU:H	1:p:18:LEU:HD13	25	0.11
(3,19)	1:p:4:LEU:H	1:p:3:ALA:HA	9	0.11
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD21	11	0.11
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD22	11	0.11
(3,17)	1:p:4:LEU:H	1:p:4:LEU:HD23	11	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	4	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	11	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	12	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	26	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	32	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	34	0.11
(3,169)	1:p:16:GLN:H	1:p:15:LEU:HA	36	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	5	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	5	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	5	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	27	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	27	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	27	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD11	33	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD12	33	0.11
(3,16)	1:p:4:LEU:H	1:p:4:LEU:HD13	33	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	3	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	3	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	3	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD21	28	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD22	28	0.11
(3,154)	1:p:15:LEU:H	1:p:15:LEU:HD23	28	0.11
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD11	30	0.11
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD12	30	0.11
(3,153)	1:p:15:LEU:H	1:p:15:LEU:HD13	30	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	3	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	4	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	8	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	9	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	11	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	16	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	19	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	20	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	23	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	31	0.11
(3,144)	1:p:14:GLU:H	1:p:13:TRP:HA	35	0.11
(3,14)	1:p:4:LEU:H	1:p:4:LEU:HB3	9	0.11
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	6	0.11
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	10	0.11
(3,137)	1:p:13:TRP:HA	1:p:16:GLN:HB3	18	0.11
(3,130)	1:p:13:TRP:H	1:p:12:GLU:HA	28	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	1	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	2	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	3	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	6	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	7	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	8	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	11	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	25	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	26	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	29	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	31	0.11
(3,107)	1:p:11:ASN:H	1:p:10:GLN:HB2	32	0.11
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB1	32	0.11
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB2	32	0.11
(3,1)	1:p:48:TYR:H	1:p:52:ALA:HB3	32	0.11
(2,9)	1:p:22:LEU:N	1:p:18:LEU:O	20	0.11
(2,19)	1:p:68:LYS:N	1:p:64:LEU:O	7	0.11
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	2	0.11
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	4	0.11
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	8	0.11
(1,1)	1:p:6:LYS:H	1:p:2:GLN:O	31	0.11

10 Dihedral-angle violation analysis

No dihedral-angle restraints found