



Full wwPDB NMR Structure Validation Report ⓘ

Oct 22, 2024 – 01:11 PM EDT

PDB ID : 2M3B
BMRB ID : 18952
Title : Serine 16 phosphorylated phospholamban pentamer, Hybrid solution and solid-state NMR structural ensemble
Authors : Vostrikov, V.V.; Verardi, R.; Veglia, G.
Deposited on : 2013-01-15

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:

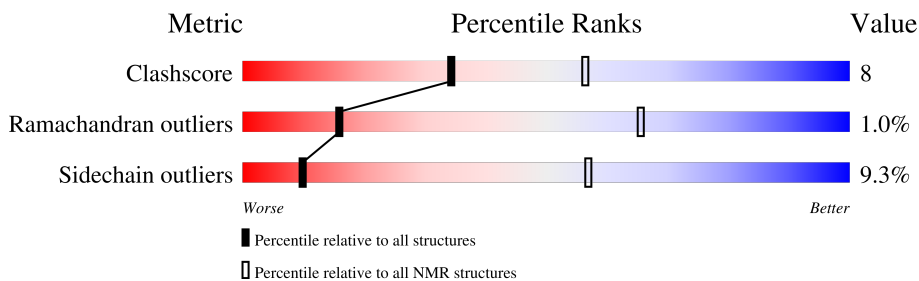
MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
SOLUTION NMR, SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 2%.

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



| Metric | Whole archive (#Entries) | NMR archive (#Entries) |
|-----------------------|-----------------------------|---------------------------|
| Clashscore | 210492 | 14027 |
| Ramachandran outliers | 207382 | 12486 |
| Sidechain outliers | 206894 | 12463 |

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 52 | |
| 1 | B | 52 | |
| 1 | C | 52 | |
| 1 | D | 52 | |
| 1 | E | 52 | |

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

| Well-defined (core) protein residues | | | |
|--------------------------------------|--|-------------------|--------------|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:5-A:14 (10) | 0.08 | 10 |
| 2 | A:31-A:46, B:31-B:46, C:31-C:47, D:31-D:47, E:31-E:47 (83) | 0.35 | 11 |
| 3 | B:5-B:14 (10) | 0.09 | 10 |
| 4 | C:5-C:14 (10) | 0.09 | 10 |
| 5 | D:5-D:14 (10) | 0.08 | 10 |
| 6 | E:5-E:14 (10) | 0.08 | 10 |

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 3 clusters. No single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 4470 atoms, of which 2335 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Cardiac phospholamban.

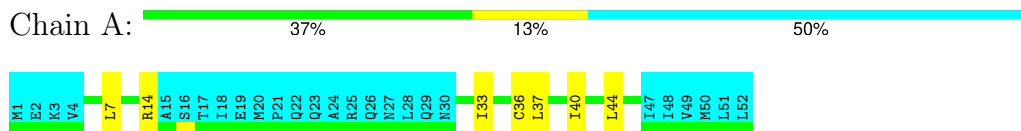
| Mol | Chain | Residues | Atoms | | | | | | | Trace |
|-----|-------|----------|-------|-----|-----|----|----|---|---|-------|
| 1 | A | 52 | Total | C | H | N | O | P | S | 0 |
| | | | 894 | 274 | 467 | 73 | 73 | 1 | 6 | |
| 1 | B | 52 | Total | C | H | N | O | P | S | 0 |
| | | | 894 | 274 | 467 | 73 | 73 | 1 | 6 | |
| 1 | C | 52 | Total | C | H | N | O | P | S | 0 |
| | | | 894 | 274 | 467 | 73 | 73 | 1 | 6 | |
| 1 | D | 52 | Total | C | H | N | O | P | S | 0 |
| | | | 894 | 274 | 467 | 73 | 73 | 1 | 6 | |
| 1 | E | 52 | Total | C | H | N | O | P | S | 0 |
| | | | 894 | 274 | 467 | 73 | 73 | 1 | 6 | |

4 Residue-property plots [i](#)

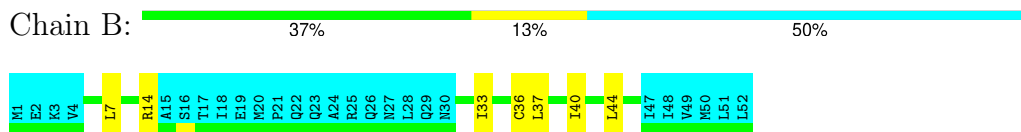
4.1 Average score per residue in the NMR ensemble

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.

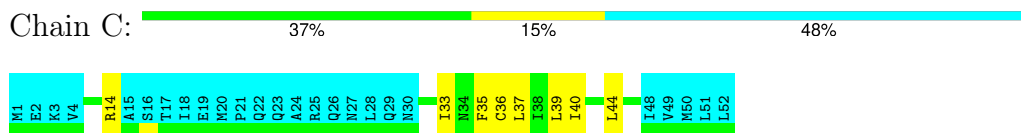
- Molecule 1: Cardiac phospholamban



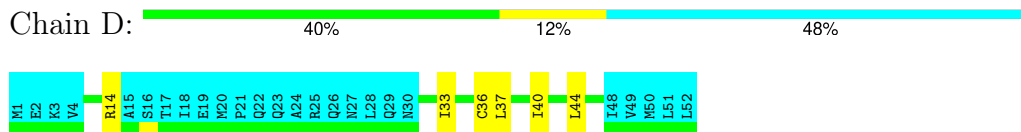
- Molecule 1: Cardiac phospholamban



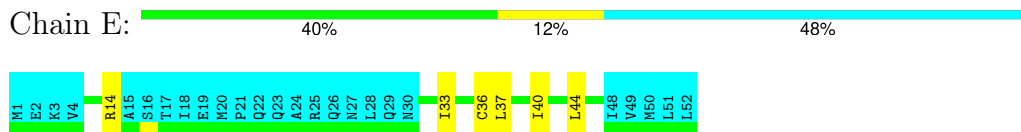
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

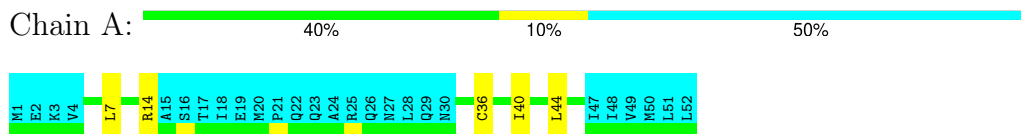


4.2 Scores per residue for each member of the ensemble

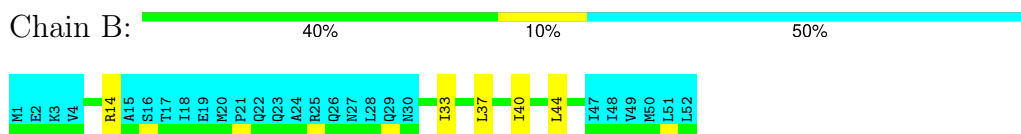
Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

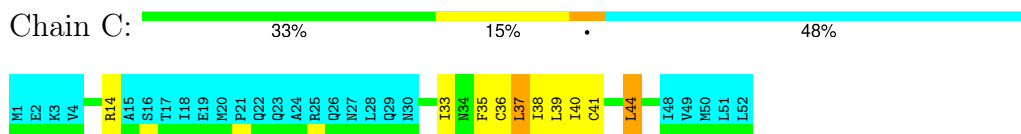
- Molecule 1: Cardiac phospholamban



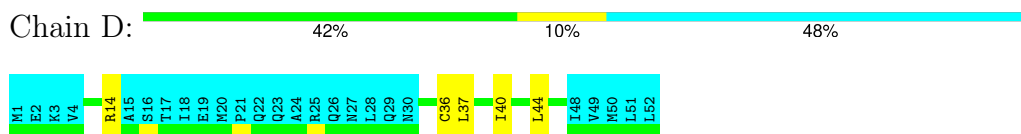
- Molecule 1: Cardiac phospholamban



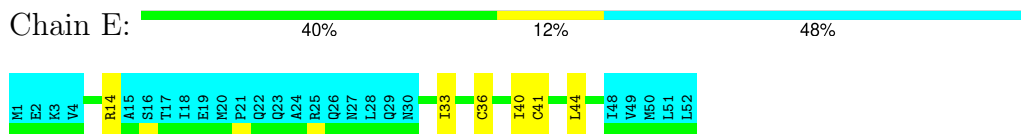
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

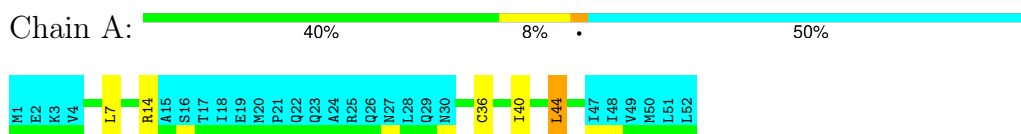


- Molecule 1: Cardiac phospholamban

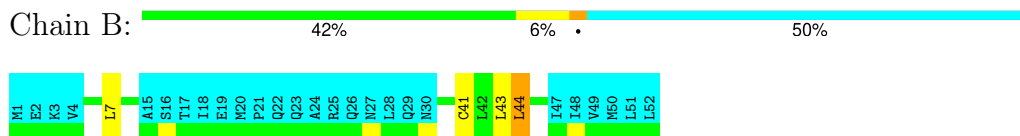


4.2.2 Score per residue for model 2

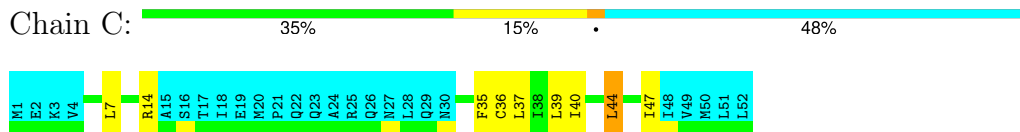
- Molecule 1: Cardiac phospholamban



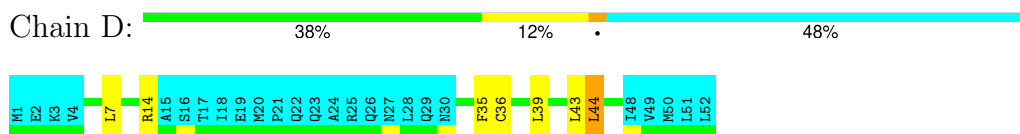
- Molecule 1: Cardiac phospholamban



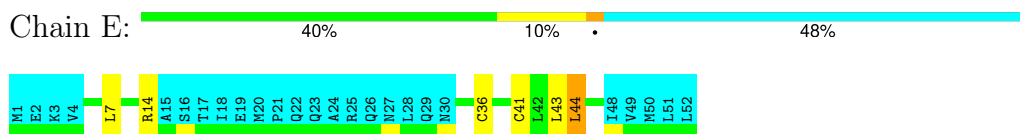
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

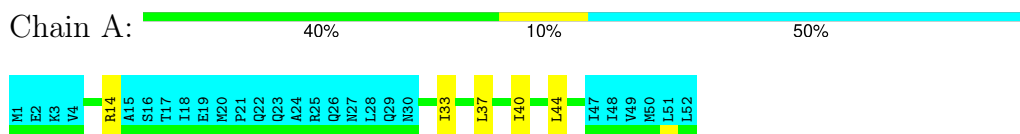


- Molecule 1: Cardiac phospholamban

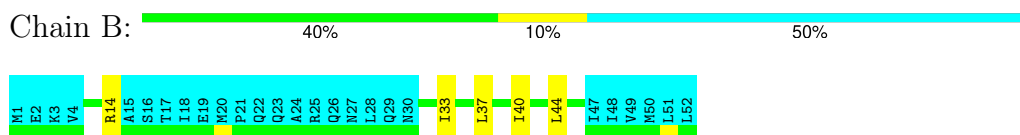


4.2.3 Score per residue for model 3

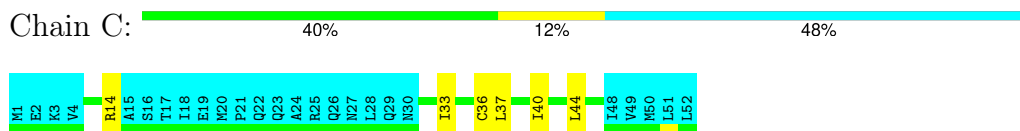
- Molecule 1: Cardiac phospholamban



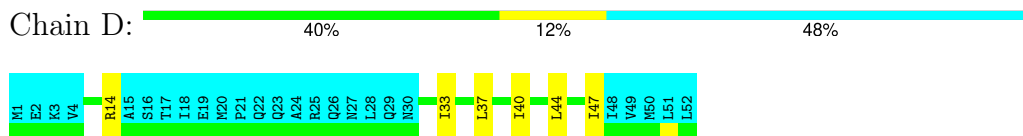
- Molecule 1: Cardiac phospholamban



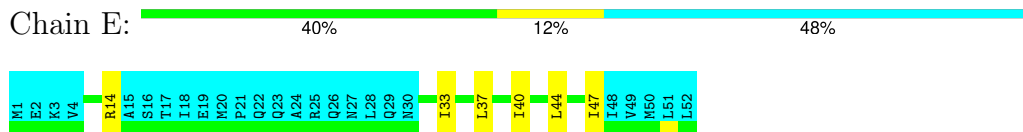
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

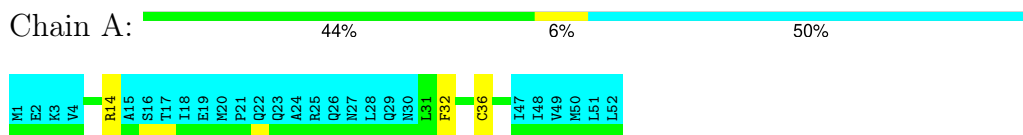


- Molecule 1: Cardiac phospholamban

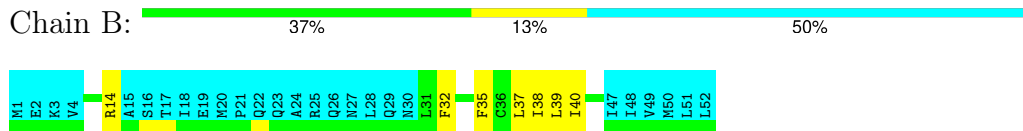


4.2.4 Score per residue for model 4

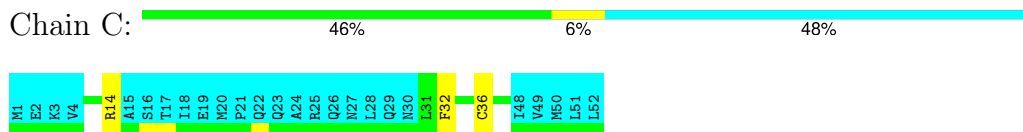
- Molecule 1: Cardiac phospholamban



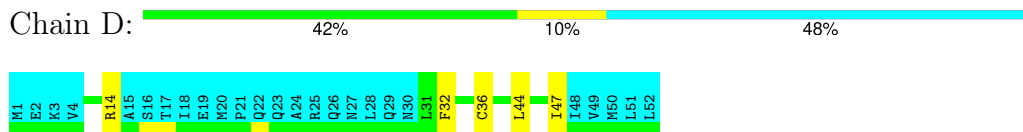
- Molecule 1: Cardiac phospholamban



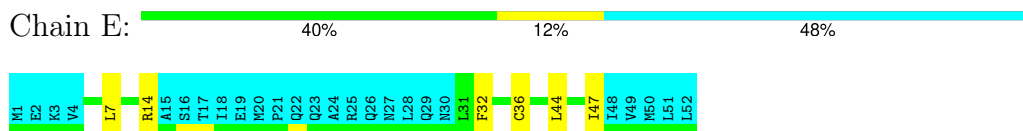
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

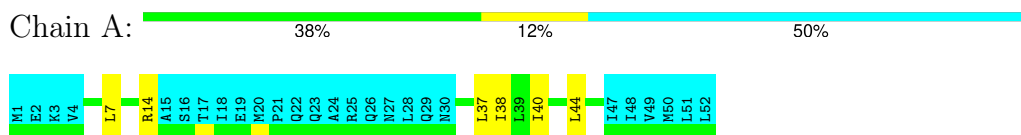


- Molecule 1: Cardiac phospholamban

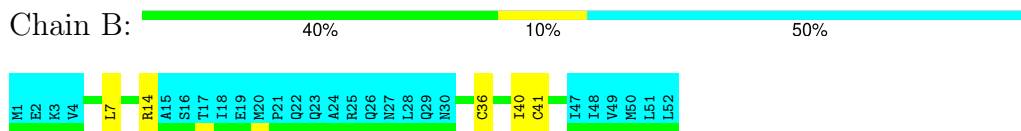


4.2.5 Score per residue for model 5

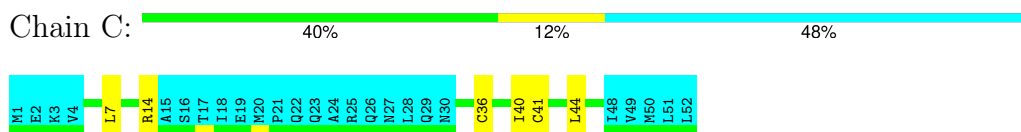
- Molecule 1: Cardiac phospholamban



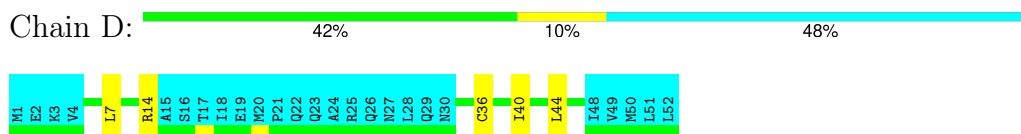
- Molecule 1: Cardiac phospholamban



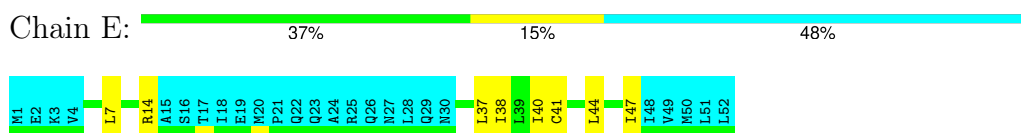
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

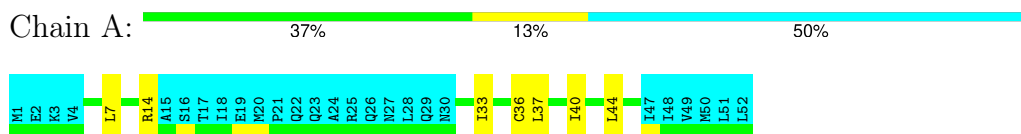


- Molecule 1: Cardiac phospholamban

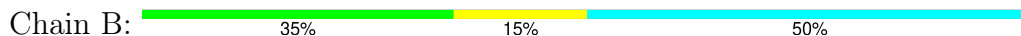


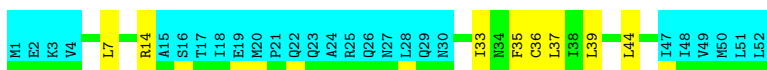
4.2.6 Score per residue for model 6

- Molecule 1: Cardiac phospholamban

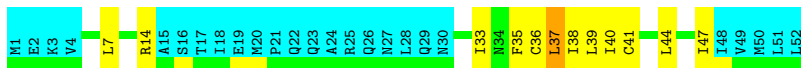
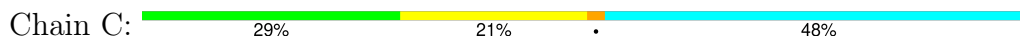


- Molecule 1: Cardiac phospholamban

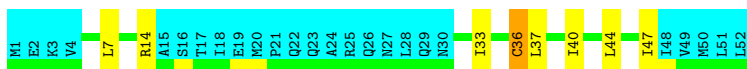
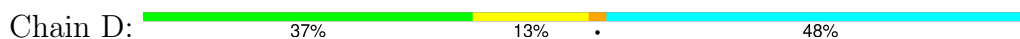




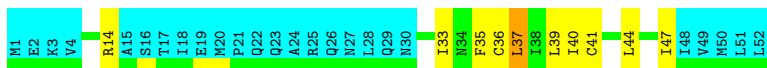
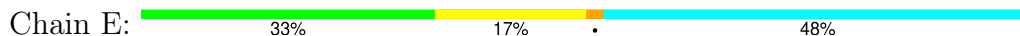
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

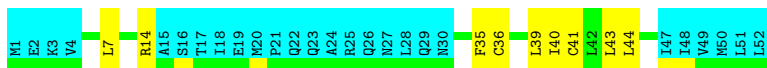
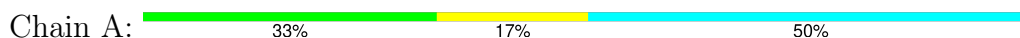


- Molecule 1: Cardiac phospholamban

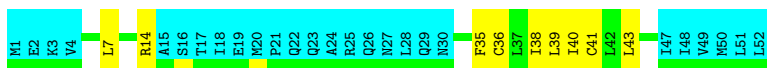
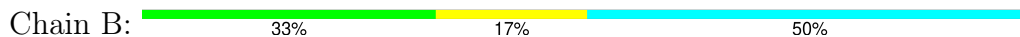


4.2.7 Score per residue for model 7

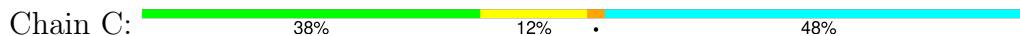
- Molecule 1: Cardiac phospholamban



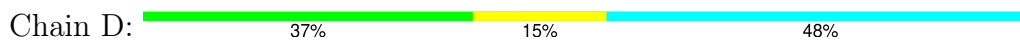
- Molecule 1: Cardiac phospholamban

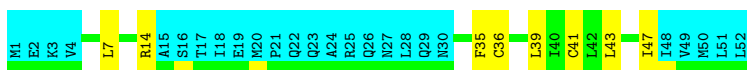


- Molecule 1: Cardiac phospholamban

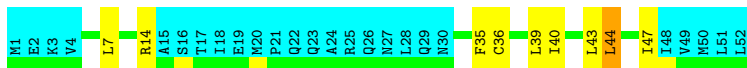
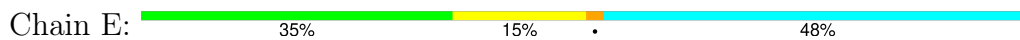


- Molecule 1: Cardiac phospholamban



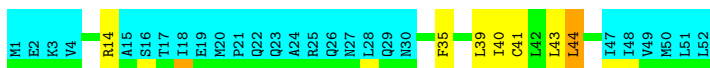
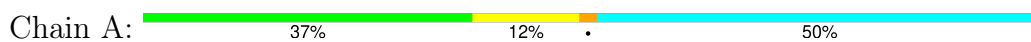


- Molecule 1: Cardiac phospholamban

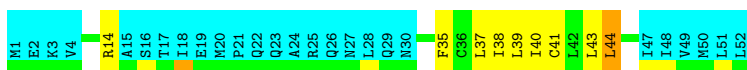
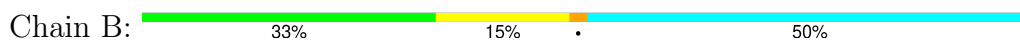


4.2.8 Score per residue for model 8

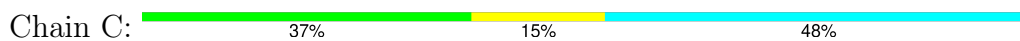
- Molecule 1: Cardiac phospholamban



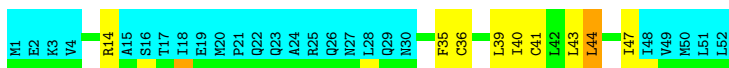
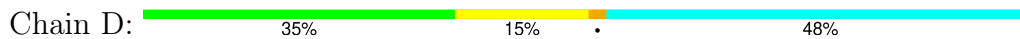
- Molecule 1: Cardiac phospholamban



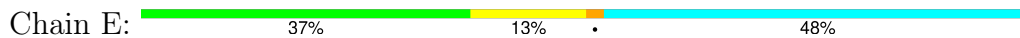
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

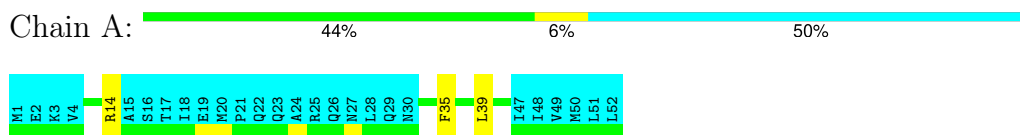


- Molecule 1: Cardiac phospholamban

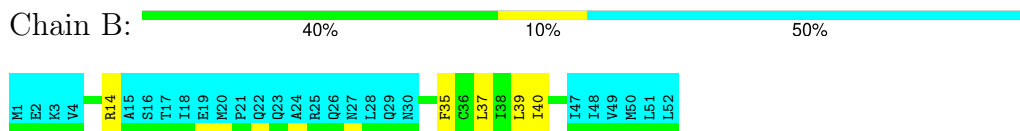


4.2.9 Score per residue for model 9

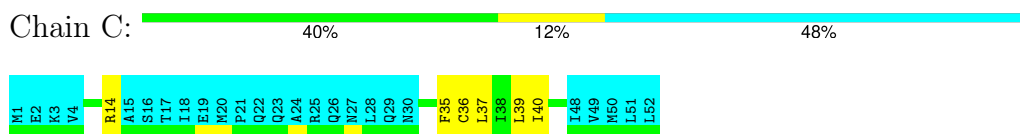
- Molecule 1: Cardiac phospholamban



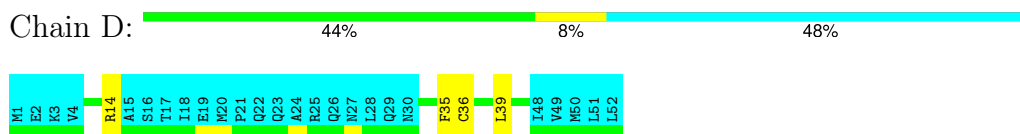
- Molecule 1: Cardiac phospholamban



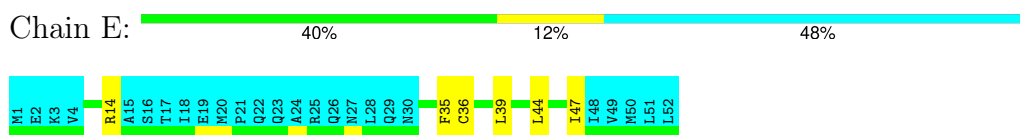
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

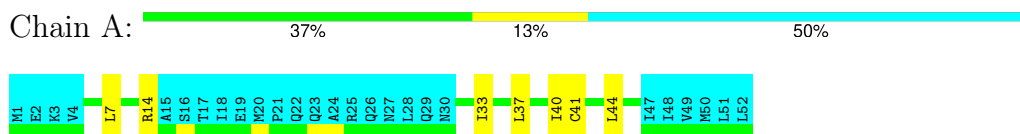


- Molecule 1: Cardiac phospholamban



4.2.10 Score per residue for model 10

- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban





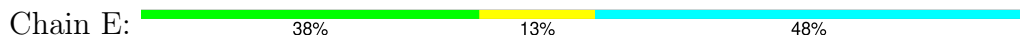
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

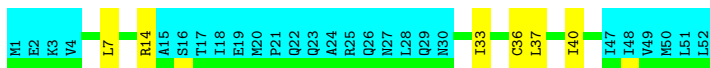
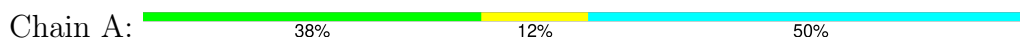


- Molecule 1: Cardiac phospholamban

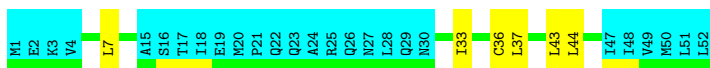
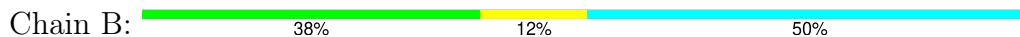


4.2.11 Score per residue for model 11 (medoid)

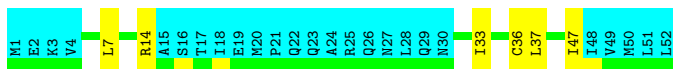
- Molecule 1: Cardiac phospholamban



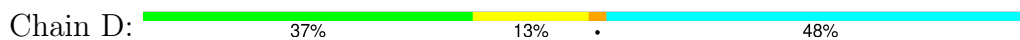
- Molecule 1: Cardiac phospholamban

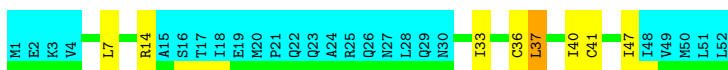


- Molecule 1: Cardiac phospholamban

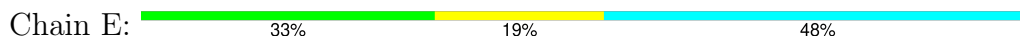


- Molecule 1: Cardiac phospholamban





- Molecule 1: Cardiac phospholamban

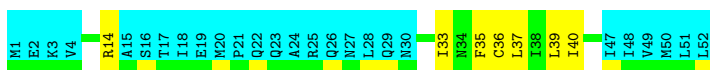
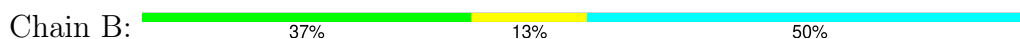


4.2.12 Score per residue for model 12

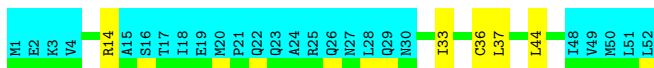
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

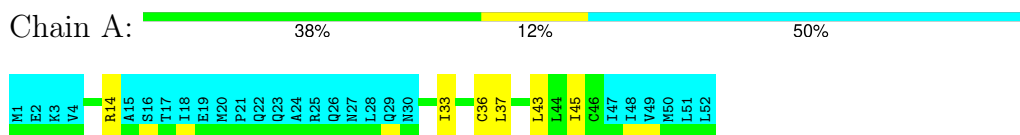


- Molecule 1: Cardiac phospholamban

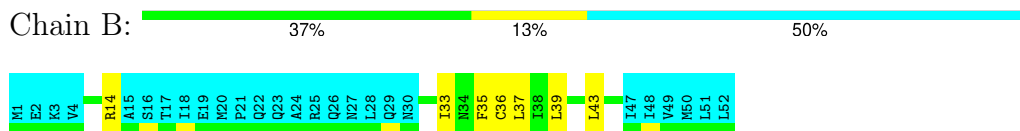


4.2.13 Score per residue for model 13

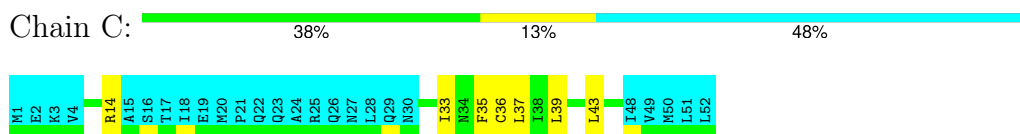
- Molecule 1: Cardiac phospholamban



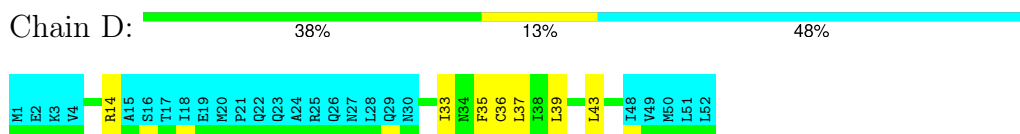
- Molecule 1: Cardiac phospholamban



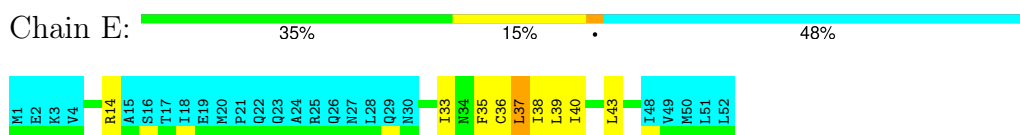
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

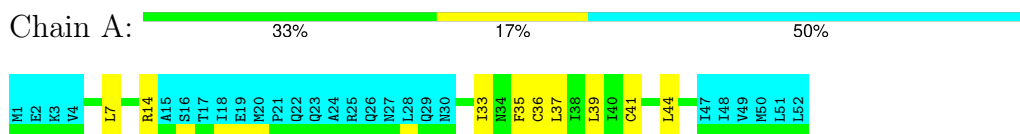


- Molecule 1: Cardiac phospholamban

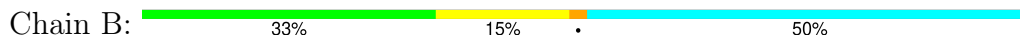


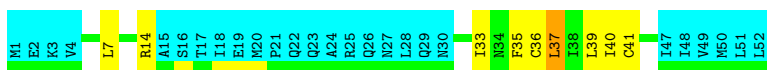
4.2.14 Score per residue for model 14

- Molecule 1: Cardiac phospholamban

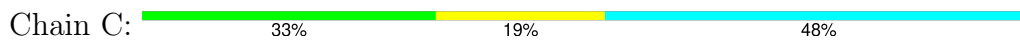


- Molecule 1: Cardiac phospholamban

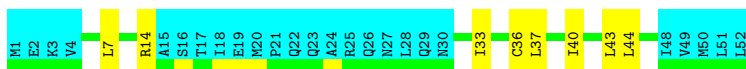
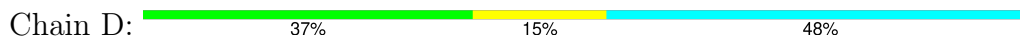




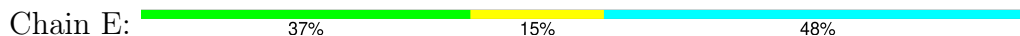
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

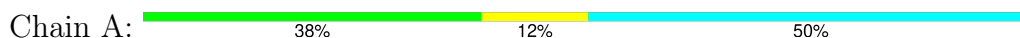


- Molecule 1: Cardiac phospholamban

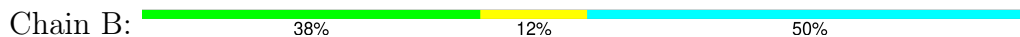


4.2.15 Score per residue for model 15

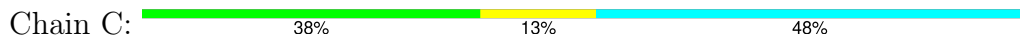
- Molecule 1: Cardiac phospholamban



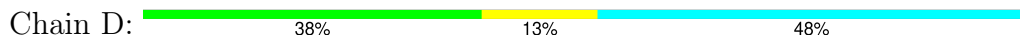
- Molecule 1: Cardiac phospholamban

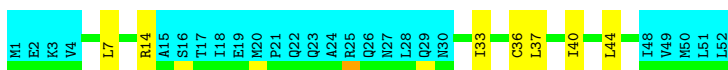


- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



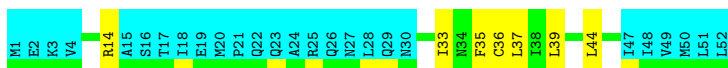
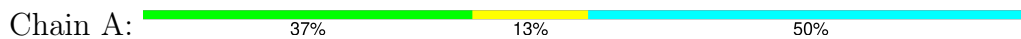


- Molecule 1: Cardiac phospholamban

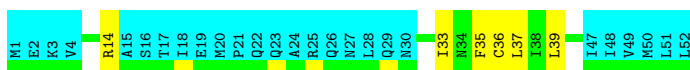
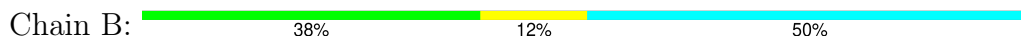


4.2.16 Score per residue for model 16

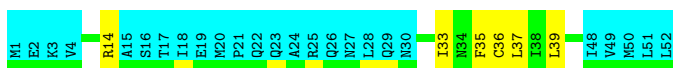
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



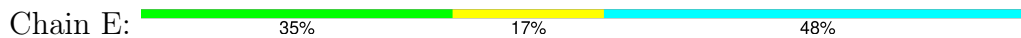
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

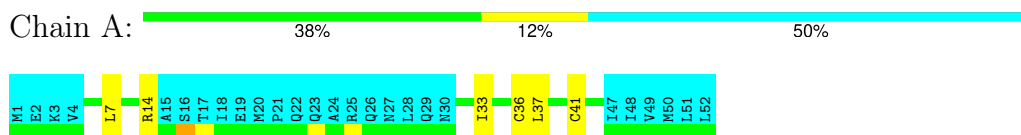


- Molecule 1: Cardiac phospholamban

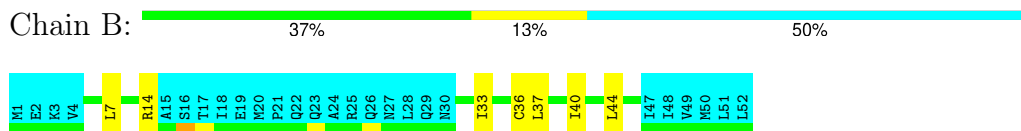


4.2.17 Score per residue for model 17

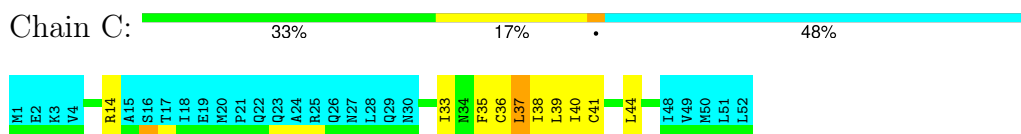
- Molecule 1: Cardiac phospholamban



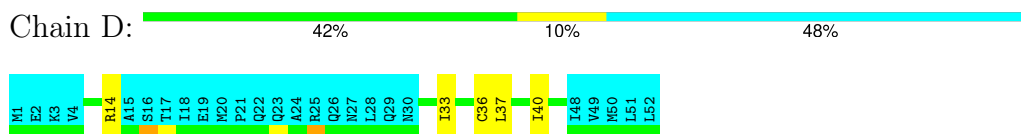
- Molecule 1: Cardiac phospholamban



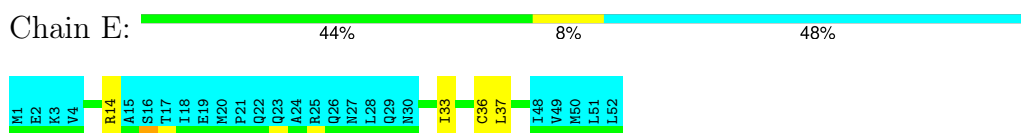
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

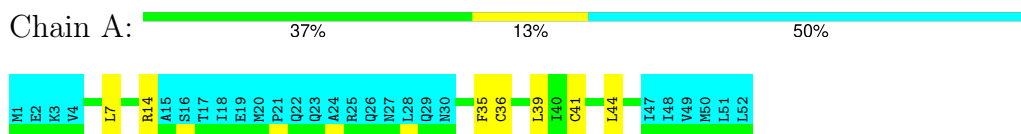


- Molecule 1: Cardiac phospholamban



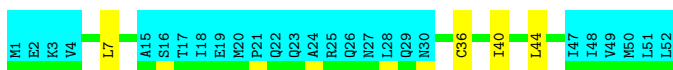
4.2.18 Score per residue for model 18

- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

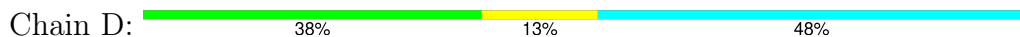




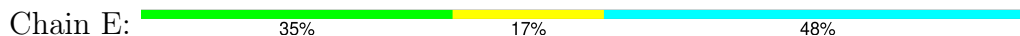
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban

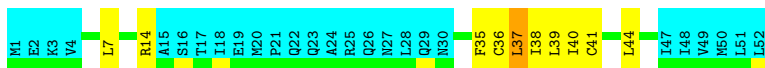
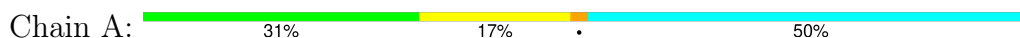


- Molecule 1: Cardiac phospholamban

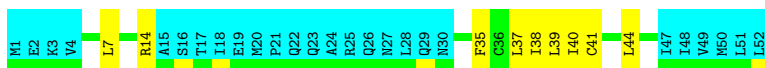
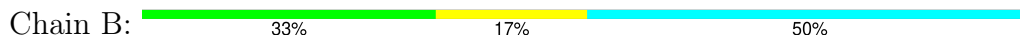


4.2.19 Score per residue for model 19

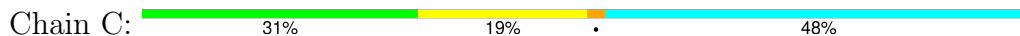
- Molecule 1: Cardiac phospholamban



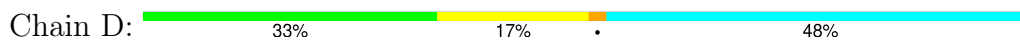
- Molecule 1: Cardiac phospholamban

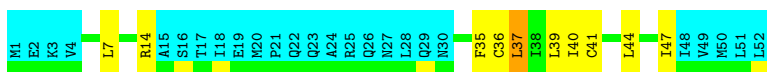


- Molecule 1: Cardiac phospholamban

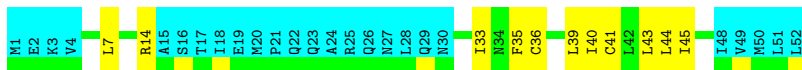
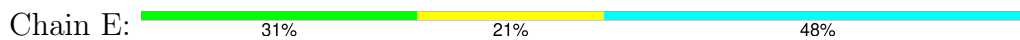


- Molecule 1: Cardiac phospholamban





- Molecule 1: Cardiac phospholamban

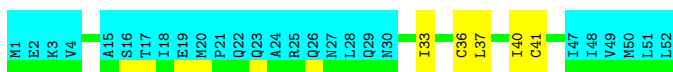


4.2.20 Score per residue for model 20

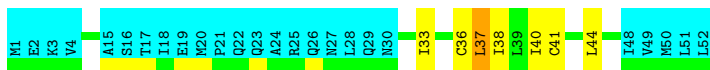
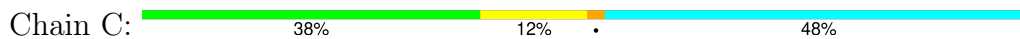
- Molecule 1: Cardiac phospholamban



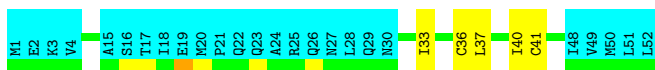
- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



- Molecule 1: Cardiac phospholamban



5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *target function*.

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

| Software name | Classification | Version |
|---------------|--------------------|---------|
| X-PLOR NIH | structure solution | 2.33 |
| X-PLOR NIH | 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 | 98 |
| Number of shifts mapped to atoms | 98 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 2% |

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality i

6.1 Standard geometry i

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

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1 | A | 216 | 244 | 244 | 5±3 |
| 1 | B | 216 | 244 | 244 | 6±2 |
| 1 | C | 224 | 255 | 255 | 6±3 |
| 1 | D | 224 | 255 | 255 | 6±4 |
| 1 | E | 224 | 255 | 255 | 7±3 |
| All | All | 22080 | 25060 | 25060 | 371 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:C:41:CYS:HG | 1:D:36:CYS:HG | 0.79 | 0.87 | 6 | 1 |
| 1:A:41:CYS:SG | 1:B:40:ILE:HD11 | 0.72 | 2.24 | 18 | 7 |
| 1:B:41:CYS:SG | 1:C:40:ILE:HD11 | 0.70 | 2.26 | 19 | 5 |
| 1:C:41:CYS:SG | 1:D:40:ILE:HD11 | 0.70 | 2.27 | 19 | 7 |
| 1:D:41:CYS:SG | 1:E:40:ILE:HD11 | 0.69 | 2.27 | 19 | 4 |
| 1:A:40:ILE:HD11 | 1:E:41:CYS:SG | 0.68 | 2.28 | 11 | 7 |
| 1:A:37:LEU:CD1 | 1:B:33:ILE:HG23 | 0.65 | 2.21 | 10 | 11 |
| 1:B:37:LEU:CD1 | 1:C:33:ILE:HG23 | 0.64 | 2.21 | 10 | 11 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:D:37:LEU:CD1 | 1:E:33:ILE:HG23 | 0.64 | 2.22 | 10 | 13 |
| 1:A:33:ILE:HG23 | 1:E:37:LEU:CD1 | 0.63 | 2.23 | 10 | 11 |
| 1:C:37:LEU:CD1 | 1:D:33:ILE:HG23 | 0.63 | 2.22 | 10 | 11 |
| 1:A:40:ILE:HD12 | 1:E:44:LEU:CD1 | 0.59 | 2.27 | 11 | 4 |
| 1:C:44:LEU:HD23 | 1:D:43:LEU:HD23 | 0.58 | 1.73 | 2 | 1 |
| 1:A:37:LEU:HD11 | 1:B:33:ILE:HG23 | 0.58 | 1.74 | 10 | 6 |
| 1:C:44:LEU:CD1 | 1:D:40:ILE:HD12 | 0.58 | 2.27 | 20 | 4 |
| 1:B:37:LEU:HD11 | 1:C:33:ILE:HG23 | 0.58 | 1.74 | 10 | 8 |
| 1:A:44:LEU:HD23 | 1:B:43:LEU:HD23 | 0.57 | 1.75 | 2 | 1 |
| 1:D:44:LEU:HD23 | 1:E:43:LEU:HD23 | 0.57 | 1.75 | 2 | 1 |
| 1:D:37:LEU:HD11 | 1:E:33:ILE:HG23 | 0.57 | 1.77 | 10 | 9 |
| 1:C:37:LEU:HD11 | 1:D:33:ILE:HG23 | 0.56 | 1.76 | 10 | 7 |
| 1:A:33:ILE:HG23 | 1:E:37:LEU:HD11 | 0.56 | 1.77 | 10 | 7 |
| 1:D:44:LEU:CD1 | 1:E:40:ILE:HD12 | 0.56 | 2.31 | 19 | 3 |
| 1:A:44:LEU:CD1 | 1:B:40:ILE:HD12 | 0.56 | 2.30 | 18 | 3 |
| 1:B:44:LEU:CD1 | 1:C:40:ILE:HD12 | 0.55 | 2.31 | 19 | 1 |
| 1:A:44:LEU:CD1 | 1:B:40:ILE:HD13 | 0.54 | 2.33 | 1 | 2 |
| 1:A:44:LEU:HD11 | 1:B:40:ILE:HG23 | 0.54 | 1.77 | 3 | 4 |
| 1:D:44:LEU:HD11 | 1:E:40:ILE:HG23 | 0.53 | 1.79 | 3 | 4 |
| 1:B:41:CYS:HA | 1:C:40:ILE:HD11 | 0.53 | 1.81 | 8 | 2 |
| 1:C:40:ILE:HG22 | 1:C:44:LEU:CD1 | 0.52 | 2.34 | 5 | 1 |
| 1:B:44:LEU:HD13 | 1:C:40:ILE:HD12 | 0.52 | 1.81 | 8 | 2 |
| 1:B:44:LEU:HD11 | 1:C:40:ILE:HG23 | 0.52 | 1.79 | 3 | 2 |
| 1:C:44:LEU:CD1 | 1:D:40:ILE:HD13 | 0.52 | 2.34 | 1 | 1 |
| 1:A:40:ILE:HG23 | 1:E:44:LEU:CD1 | 0.52 | 2.35 | 5 | 2 |
| 1:E:44:LEU:HA | 1:E:47:ILE:HD12 | 0.52 | 1.82 | 6 | 8 |
| 1:D:44:LEU:HA | 1:D:47:ILE:HD12 | 0.51 | 1.82 | 6 | 6 |
| 1:B:40:ILE:HG22 | 1:B:44:LEU:CD1 | 0.49 | 2.37 | 18 | 1 |
| 1:A:40:ILE:HD12 | 1:E:44:LEU:HD12 | 0.49 | 1.85 | 11 | 3 |
| 1:D:33:ILE:HG22 | 1:D:37:LEU:CD1 | 0.49 | 2.37 | 3 | 8 |
| 1:A:40:ILE:HG23 | 1:E:44:LEU:HD11 | 0.49 | 1.83 | 3 | 2 |
| 1:B:33:ILE:HG22 | 1:B:37:LEU:CD1 | 0.49 | 2.38 | 10 | 8 |
| 1:D:44:LEU:HB3 | 1:E:43:LEU:HD23 | 0.49 | 1.83 | 19 | 2 |
| 1:A:33:ILE:HG22 | 1:A:37:LEU:CD1 | 0.48 | 2.38 | 10 | 8 |
| 1:C:44:LEU:HD11 | 1:D:40:ILE:HG23 | 0.48 | 1.84 | 3 | 3 |
| 1:E:33:ILE:HG22 | 1:E:37:LEU:CD1 | 0.47 | 2.39 | 10 | 8 |
| 1:A:41:CYS:HA | 1:B:40:ILE:HD11 | 0.47 | 1.86 | 8 | 1 |
| 1:D:35:PHE:CE2 | 1:D:39:LEU:HD11 | 0.47 | 2.45 | 16 | 5 |
| 1:C:33:ILE:HG22 | 1:C:37:LEU:CD1 | 0.47 | 2.40 | 10 | 7 |
| 1:E:37:LEU:O | 1:E:40:ILE:N | 0.47 | 2.48 | 5 | 7 |
| 1:A:40:ILE:HG23 | 1:E:44:LEU:HD13 | 0.47 | 1.87 | 5 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:40:ILE:CD1 | 1:E:44:LEU:HD13 | 0.47 | 2.39 | 7 | 1 |
| 1:E:35:PHE:CE2 | 1:E:39:LEU:HD11 | 0.47 | 2.45 | 16 | 6 |
| 1:B:44:LEU:CD1 | 1:C:40:ILE:HG23 | 0.47 | 2.39 | 19 | 3 |
| 1:B:44:LEU:HD13 | 1:C:40:ILE:HG23 | 0.47 | 1.85 | 1 | 3 |
| 1:E:35:PHE:CZ | 1:E:39:LEU:HD11 | 0.47 | 2.45 | 13 | 8 |
| 1:D:44:LEU:CD1 | 1:E:40:ILE:HG23 | 0.46 | 2.40 | 5 | 4 |
| 1:D:44:LEU:HD12 | 1:E:40:ILE:HD12 | 0.46 | 1.88 | 19 | 1 |
| 1:A:37:LEU:O | 1:A:40:ILE:N | 0.46 | 2.47 | 5 | 2 |
| 1:C:44:LEU:HA | 1:C:47:ILE:HD12 | 0.46 | 1.86 | 6 | 1 |
| 1:B:35:PHE:CZ | 1:B:39:LEU:HD11 | 0.46 | 2.46 | 14 | 5 |
| 1:B:35:PHE:CE2 | 1:B:39:LEU:HD11 | 0.46 | 2.45 | 9 | 8 |
| 1:C:44:LEU:HD12 | 1:D:40:ILE:HD12 | 0.46 | 1.88 | 19 | 2 |
| 1:A:40:ILE:HD12 | 1:E:44:LEU:HD13 | 0.46 | 1.86 | 8 | 2 |
| 1:B:37:LEU:O | 1:B:40:ILE:N | 0.46 | 2.48 | 19 | 5 |
| 1:B:44:LEU:HD12 | 1:C:40:ILE:HD12 | 0.46 | 1.87 | 19 | 1 |
| 1:D:33:ILE:HG22 | 1:D:37:LEU:HD11 | 0.45 | 1.88 | 10 | 2 |
| 1:C:35:PHE:CE2 | 1:C:39:LEU:HD11 | 0.45 | 2.46 | 16 | 5 |
| 1:C:44:LEU:HB3 | 1:D:43:LEU:HD23 | 0.45 | 1.88 | 7 | 2 |
| 1:D:44:LEU:HD13 | 1:E:40:ILE:HG23 | 0.45 | 1.89 | 6 | 4 |
| 1:D:35:PHE:CZ | 1:D:39:LEU:HD11 | 0.45 | 2.47 | 9 | 6 |
| 1:A:44:LEU:CD1 | 1:B:40:ILE:HG23 | 0.45 | 2.42 | 19 | 3 |
| 1:C:44:LEU:HD13 | 1:D:40:ILE:HD12 | 0.45 | 1.89 | 5 | 1 |
| 1:C:35:PHE:CZ | 1:C:39:LEU:HD11 | 0.45 | 2.47 | 14 | 11 |
| 1:A:44:LEU:HD13 | 1:B:40:ILE:HD12 | 0.45 | 1.89 | 8 | 1 |
| 1:C:41:CYS:HA | 1:D:40:ILE:HD11 | 0.44 | 1.89 | 8 | 1 |
| 1:A:35:PHE:CE2 | 1:A:39:LEU:HD11 | 0.44 | 2.48 | 16 | 5 |
| 1:E:33:ILE:HG22 | 1:E:37:LEU:HD11 | 0.44 | 1.90 | 10 | 1 |
| 1:C:44:LEU:CD1 | 1:D:40:ILE:HG23 | 0.44 | 2.42 | 19 | 3 |
| 1:A:40:ILE:HD11 | 1:E:41:CYS:HA | 0.43 | 1.90 | 8 | 2 |
| 1:C:33:ILE:HG22 | 1:C:37:LEU:HD11 | 0.43 | 1.90 | 10 | 1 |
| 1:C:44:LEU:HD13 | 1:D:40:ILE:HG23 | 0.43 | 1.88 | 14 | 2 |
| 1:D:44:LEU:HD13 | 1:E:40:ILE:HD12 | 0.43 | 1.90 | 8 | 1 |
| 1:B:33:ILE:HG22 | 1:B:37:LEU:HD11 | 0.43 | 1.91 | 10 | 2 |
| 1:D:37:LEU:O | 1:D:40:ILE:N | 0.43 | 2.51 | 11 | 2 |
| 1:C:37:LEU:O | 1:C:40:ILE:N | 0.43 | 2.51 | 19 | 6 |
| 1:A:44:LEU:HB3 | 1:B:43:LEU:HD23 | 0.43 | 1.91 | 2 | 1 |
| 1:A:35:PHE:CZ | 1:A:39:LEU:HD11 | 0.43 | 2.49 | 9 | 5 |
| 1:A:40:ILE:HD13 | 1:E:44:LEU:CD1 | 0.42 | 2.45 | 1 | 1 |
| 1:D:41:CYS:HA | 1:E:40:ILE:HD11 | 0.42 | 1.91 | 8 | 1 |
| 1:A:44:LEU:HD12 | 1:B:40:ILE:HD13 | 0.42 | 1.92 | 1 | 1 |
| 1:A:33:ILE:HG22 | 1:A:37:LEU:HD11 | 0.41 | 1.91 | 10 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:E:40:ILE:HG22 | 1:E:44:LEU:CD1 | 0.41 | 2.46 | 5 | 1 |
| 1:A:7:LEU:HD13 | 1:A:7:LEU:C | 0.40 | 2.36 | 1 | 1 |
| 1:E:7:LEU:O | 1:E:7:LEU:HD13 | 0.40 | 2.17 | 4 | 1 |
| 1:A:44:LEU:HD13 | 1:B:40:ILE:HG23 | 0.40 | 1.94 | 14 | 1 |
| 1:B:7:LEU:HD13 | 1:B:7:LEU:C | 0.40 | 2.37 | 17 | 1 |
| 1:A:7:LEU:C | 1:A:7:LEU:HD13 | 0.40 | 2.37 | 17 | 1 |

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

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

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|-----|-------|-----------------|--------------|------------|------------|-------------|----|
| 1 | A | 26/52 (50%) | 26±1 (99±2%) | 0±0 (0±1%) | 0±0 (1±2%) | 24 | 72 |
| 1 | B | 26/52 (50%) | 25±1 (98±3%) | 0±1 (2±2%) | 0±0 (1±2%) | 16 | 65 |
| 1 | C | 27/52 (52%) | 26±1 (97±4%) | 0±1 (1±3%) | 0±1 (2±3%) | 9 | 51 |
| 1 | D | 27/52 (52%) | 27±1 (99±2%) | 0±0 (1±1%) | 0±0 (0±1%) | 32 | 76 |
| 1 | E | 27/52 (52%) | 26±1 (96±4%) | 1±1 (2±3%) | 0±1 (1±2%) | 15 | 64 |
| All | All | 2660/5200 (51%) | 2600 (98%) | 34 (1%) | 26 (1%) | 16 | 65 |

All 9 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | C | 37 | LEU | 5 |
| 1 | C | 38 | ILE | 5 |
| 1 | B | 38 | ILE | 4 |
| 1 | E | 38 | ILE | 3 |
| 1 | E | 37 | LEU | 3 |
| 1 | A | 38 | ILE | 2 |
| 1 | D | 37 | LEU | 2 |
| 1 | B | 37 | LEU | 1 |
| 1 | A | 37 | LEU | 1 |

6.3.2 Protein sidechains [i](#)

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

| Mol | Chain | Analysed | Rotameric | Outliers | Percentiles | |
|-----|-------|-----------------|--------------|-------------|-------------|----|
| 1 | A | 25/48 (52%) | 23±1 (91±4%) | 2±1 (9±4%) | 10 | 57 |
| 1 | B | 25/48 (52%) | 23±1 (92±3%) | 2±1 (8±3%) | 13 | 62 |
| 1 | C | 26/48 (54%) | 23±1 (90±3%) | 3±1 (10±3%) | 8 | 53 |
| 1 | D | 26/48 (54%) | 24±1 (91±3%) | 2±1 (9±3%) | 10 | 56 |
| 1 | E | 26/48 (54%) | 24±1 (91±3%) | 2±1 (9±3%) | 10 | 56 |
| All | All | 2560/4800 (53%) | 2323 (91%) | 237 (9%) | 10 | 57 |

All 20 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 | C | 36 | CYS | 20 |
| 1 | A | 14 | ARG | 19 |
| 1 | C | 14 | ARG | 19 |
| 1 | D | 14 | ARG | 19 |
| 1 | E | 14 | ARG | 19 |
| 1 | D | 36 | CYS | 18 |
| 1 | E | 36 | CYS | 18 |
| 1 | B | 14 | ARG | 16 |
| 1 | A | 36 | CYS | 14 |
| 1 | B | 36 | CYS | 11 |
| 1 | A | 7 | LEU | 10 |
| 1 | B | 7 | LEU | 10 |
| 1 | C | 7 | LEU | 10 |
| 1 | D | 7 | LEU | 10 |
| 1 | E | 7 | LEU | 9 |
| 1 | C | 44 | LEU | 5 |
| 1 | A | 44 | LEU | 3 |
| 1 | E | 44 | LEU | 3 |
| 1 | B | 44 | LEU | 2 |
| 1 | D | 44 | LEU | 2 |

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

5 non-standard protein/DNA/RNA residues are modelled in this entry.

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

| Mol | Type | Chain | Res | Link | Bond lengths | | |
|-----|------|-------|-----|------|--------------|-----------|------------|
| | | | | | Counts | RMSZ | #Z>2 |
| 1 | SEP | C | 16 | 1 | 8,9,10 | 1.38±0.27 | 1±0 (7±6%) |
| 1 | SEP | D | 16 | 1 | 8,9,10 | 1.38±0.27 | 1±0 (7±6%) |
| 1 | SEP | E | 16 | 1 | 8,9,10 | 1.38±0.26 | 1±0 (7±6%) |
| 1 | SEP | A | 16 | 1 | 8,9,10 | 1.38±0.27 | 1±0 (7±6%) |
| 1 | SEP | B | 16 | 1 | 8,9,10 | 1.38±0.26 | 1±0 (7±6%) |

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

| Mol | Type | Chain | Res | Link | Bond angles | | |
|-----|------|-------|-----|------|-------------|-----------|------------|
| | | | | | Counts | RMSZ | #Z>2 |
| 1 | SEP | C | 16 | 1 | 7,12,14 | 1.11±0.19 | 0±0 (7±7%) |
| 1 | SEP | D | 16 | 1 | 7,12,14 | 1.10±0.18 | 0±0 (7±7%) |
| 1 | SEP | E | 16 | 1 | 7,12,14 | 1.11±0.19 | 0±0 (7±7%) |
| 1 | SEP | A | 16 | 1 | 7,12,14 | 1.13±0.21 | 1±0 (7±7%) |
| 1 | SEP | B | 16 | 1 | 7,12,14 | 1.12±0.19 | 0±0 (6±7%) |

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means

no outliers of that kind were identified.

| Mol | Type | Chain | Res | Link | Chirals | Torsions | Rings |
|-----|------|-------|-----|------|---------|------------|-------|
| 1 | SEP | B | 16 | 1 | - | 0±0,6,8,10 | - |
| 1 | SEP | D | 16 | 1 | - | 0±0,6,8,10 | - |
| 1 | SEP | A | 16 | 1 | - | 0±0,6,8,10 | - |
| 1 | SEP | C | 16 | 1 | - | 0±0,6,8,10 | - |
| 1 | SEP | E | 16 | 1 | - | 0±0,6,8,10 | - |

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

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) | Models | |
|-----|-------|-----|------|-------|------|-------------|----------|--------|-------|
| | | | | | | | | Worst | Total |
| 1 | A | 16 | SEP | P-O1P | 3.55 | 1.61 | 1.50 | 13 | 12 |
| 1 | D | 16 | SEP | P-O1P | 3.55 | 1.61 | 1.50 | 7 | 12 |
| 1 | E | 16 | SEP | P-O1P | 3.52 | 1.61 | 1.50 | 11 | 12 |
| 1 | C | 16 | SEP | P-O1P | 3.50 | 1.61 | 1.50 | 13 | 12 |
| 1 | B | 16 | SEP | P-O1P | 3.49 | 1.61 | 1.50 | 2 | 12 |

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

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) | Models | |
|-----|-------|-----|------|----------|------|-------------|----------|--------|-------|
| | | | | | | | | Worst | Total |
| 1 | A | 16 | SEP | OG-CB-CA | 4.03 | 112.07 | 108.14 | 11 | 11 |
| 1 | E | 16 | SEP | OG-CB-CA | 3.36 | 111.41 | 108.14 | 6 | 10 |
| 1 | B | 16 | SEP | OG-CB-CA | 3.35 | 111.40 | 108.14 | 11 | 9 |
| 1 | C | 16 | SEP | OG-CB-CA | 3.35 | 111.40 | 108.14 | 6 | 10 |
| 1 | D | 16 | SEP | OG-CB-CA | 3.29 | 111.34 | 108.14 | 6 | 10 |

There are no chirality outliers.

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

| Mol | Chain | Res | Type | Atoms | Models (Total) |
|-----|-------|-----|------|------------|----------------|
| 1 | A | 16 | SEP | CA-CB-OG-P | 2 |
| 1 | B | 16 | SEP | CA-CB-OG-P | 2 |
| 1 | C | 16 | SEP | CA-CB-OG-P | 2 |
| 1 | D | 16 | SEP | CA-CB-OG-P | 2 |
| 1 | E | 16 | SEP | CA-CB-OG-P | 2 |

There are no ring outliers.

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 2% for the well-defined parts and 2% 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 | 98 |
| Number of shifts mapped to atoms | 98 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 0 |

7.1.2 Chemical shift referencing i

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction \pm precision, ppm | Suggested action |
|------------------------|----------|---------------------------------|--------------------------|
| $^{13}\text{C}_\alpha$ | 0 | — | None (insufficient data) |
| $^{13}\text{C}_\beta$ | 0 | — | None (insufficient data) |
| $^{13}\text{C}'$ | 0 | — | None (insufficient data) |
| ^{15}N | 48 | 0.98 ± 0.17 | 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 2%, i.e. 52 atoms were assigned a chemical shift out of a possible 2139. 0 out of 35 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ^1H | ^{13}C | ^{15}N |
|-----------|-------------|--------------|-----------------|-----------------|
| Backbone | 52/665 (8%) | 26/266 (10%) | 0/266 (0%) | 26/133 (20%) |
| Sidechain | 0/1329 (0%) | 0/887 (0%) | 0/387 (0%) | 0/55 (0%) |

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| | Total | ¹H | ¹³C | ¹⁵N |
|----------|--------------|----------------------|-----------------------|-----------------------|
| Aromatic | 0/145 (0%) | 0/70 (0%) | 0/75 (0%) | 0/0 (—%) |
| Overall | 52/2139 (2%) | 26/1223 (2%) | 0/728 (0%) | 26/188 (14%) |

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 2%, i.e. 96 atoms were assigned a chemical shift out of a possible 3950. 0 out of 60 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ¹H | ¹³C | ¹⁵N |
|-----------|--------------|----------------------|-----------------------|-----------------------|
| Backbone | 96/1265 (8%) | 48/505 (10%) | 0/510 (0%) | 48/250 (19%) |
| Sidechain | 0/2540 (0%) | 0/1680 (0%) | 0/755 (0%) | 0/105 (0%) |
| Aromatic | 0/145 (0%) | 0/70 (0%) | 0/75 (0%) | 0/0 (—%) |
| Overall | 96/3950 (2%) | 48/2255 (2%) | 0/1340 (0%) | 48/355 (14%) |

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

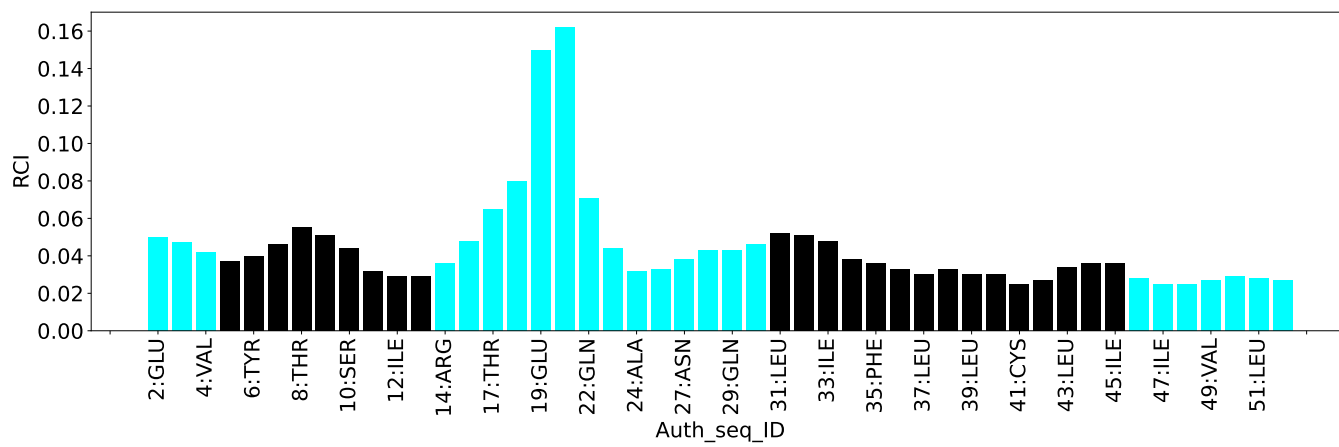
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain B:



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 | 2982 |
| Intra-residue ($ i-j =0$) | 875 |
| Sequential ($ i-j =1$) | 700 |
| Medium range ($ i-j >1$ and $ i-j <5$) | 495 |
| Long range ($ i-j \geq 5$) | 0 |
| Inter-chain | 912 |
| Hydrogen bond restraints | 0 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 430 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 13.1 |
| Number of long range restraints per residue ¹ | 0.0 |

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) | 96.0 | 0.2 |
| 0.2-0.5 (Medium) | 38.2 | 0.5 |
| >0.5 (Large) | 45.5 | 3.12 |

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

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

| Bins (°) | Average number of violations per model | Max (°) |
|--------------------|--|---------|
| 1.0-10.0 (Small) | 20.0 | 9.98 |
| 10.0-20.0 (Medium) | 11.2 | 19.86 |
| >20.0 (Large) | 19.7 | 168.14 |

9 Distance violation analysis i

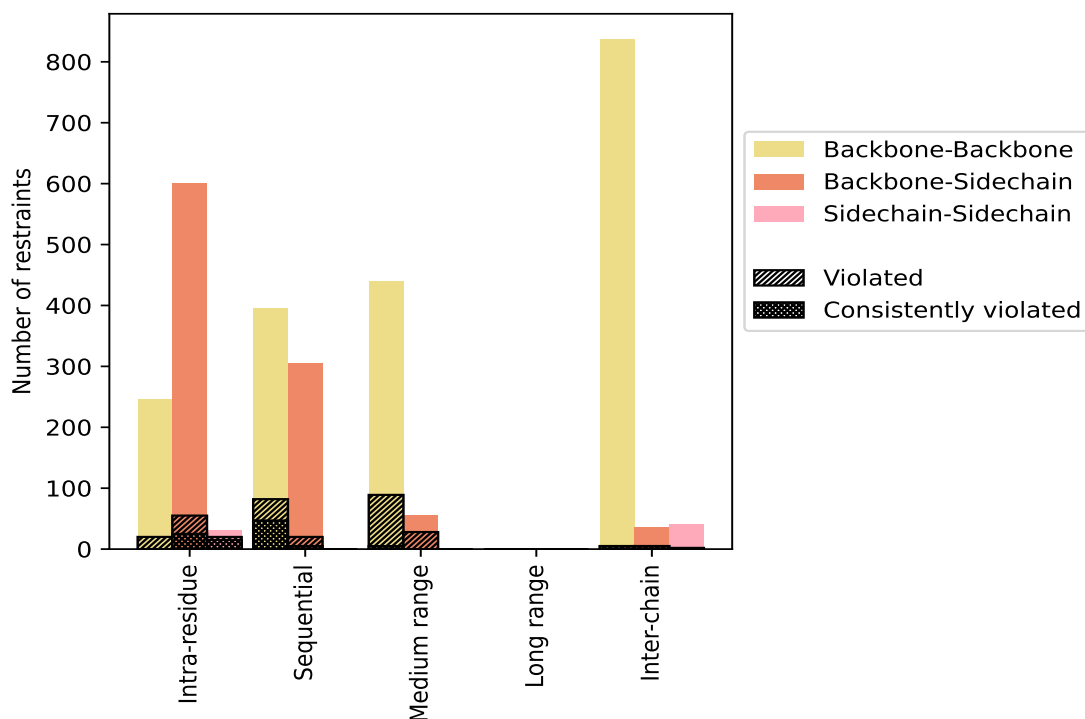
9.1 Summary of distance violations i

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

| Restrains type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|---|-------------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| Intra-residue ($i-j =0$) | 875 | 29.3 | 95 | 10.9 | 3.2 | 40 | 4.6 | 1.3 |
| Backbone-Backbone | 245 | 8.2 | 20 | 8.2 | 0.7 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 600 | 20.1 | 55 | 9.2 | 1.8 | 25 | 4.2 | 0.8 |
| Sidechain-Sidechain | 30 | 1.0 | 20 | 66.7 | 0.7 | 15 | 50.0 | 0.5 |
| Sequential ($i-j =1$) | 700 | 23.5 | 102 | 14.6 | 3.4 | 52 | 7.4 | 1.7 |
| Backbone-Backbone | 395 | 13.2 | 82 | 20.8 | 2.7 | 47 | 11.9 | 1.6 |
| Backbone-Sidechain | 305 | 10.2 | 20 | 6.6 | 0.7 | 5 | 1.6 | 0.2 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Medium range ($i-j >1$ & $i-j <5$) | 495 | 16.6 | 117 | 23.6 | 3.9 | 5 | 1.0 | 0.2 |
| Backbone-Backbone | 440 | 14.8 | 89 | 20.2 | 3.0 | 5 | 1.1 | 0.2 |
| Backbone-Sidechain | 55 | 1.8 | 28 | 50.9 | 0.9 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Long range ($i-j \geq 5$) | 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 |
| Inter-chain | 912 | 30.6 | 12 | 1.3 | 0.4 | 10 | 1.1 | 0.3 |
| Backbone-Backbone | 837 | 28.1 | 5 | 0.6 | 0.2 | 5 | 0.6 | 0.2 |
| Backbone-Sidechain | 35 | 1.2 | 5 | 14.3 | 0.2 | 5 | 14.3 | 0.2 |
| Sidechain-Sidechain | 40 | 1.3 | 2 | 5.0 | 0.1 | 0 | 0.0 | 0.0 |
| Hydrogen bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 2982 | 100.0 | 326 | 10.9 | 10.9 | 107 | 3.6 | 3.6 |
| Backbone-Backbone | 1917 | 64.3 | 196 | 10.2 | 6.6 | 57 | 3.0 | 1.9 |
| Backbone-Sidechain | 995 | 33.4 | 108 | 10.9 | 3.6 | 35 | 3.5 | 1.2 |
| Sidechain-Sidechain | 70 | 2.3 | 22 | 31.4 | 0.7 | 15 | 21.4 | 0.5 |

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

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



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

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

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

| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | Total | | | | |
| 1 | 52 | 75 | 25 | 0 | 10 | 162 | 0.34 | 1.47 | 0.31 | 0.17 |
| 2 | 65 | 65 | 58 | 0 | 10 | 198 | 0.33 | 1.8 | 0.33 | 0.18 |
| 3 | 63 | 81 | 48 | 0 | 10 | 202 | 0.48 | 2.6 | 0.56 | 0.2 |
| 4 | 55 | 70 | 38 | 0 | 10 | 173 | 0.39 | 1.41 | 0.34 | 0.19 |
| 5 | 57 | 75 | 52 | 0 | 10 | 194 | 0.36 | 1.64 | 0.37 | 0.18 |
| 6 | 47 | 70 | 49 | 0 | 10 | 176 | 0.37 | 2.85 | 0.5 | 0.16 |
| 7 | 48 | 72 | 47 | 0 | 11 | 178 | 0.3 | 1.15 | 0.26 | 0.17 |
| 8 | 60 | 70 | 66 | 0 | 11 | 207 | 0.52 | 2.4 | 0.56 | 0.19 |
| 9 | 45 | 75 | 51 | 0 | 10 | 181 | 0.42 | 2.35 | 0.48 | 0.19 |
| 10 | 52 | 68 | 51 | 0 | 10 | 181 | 0.41 | 2.47 | 0.49 | 0.17 |

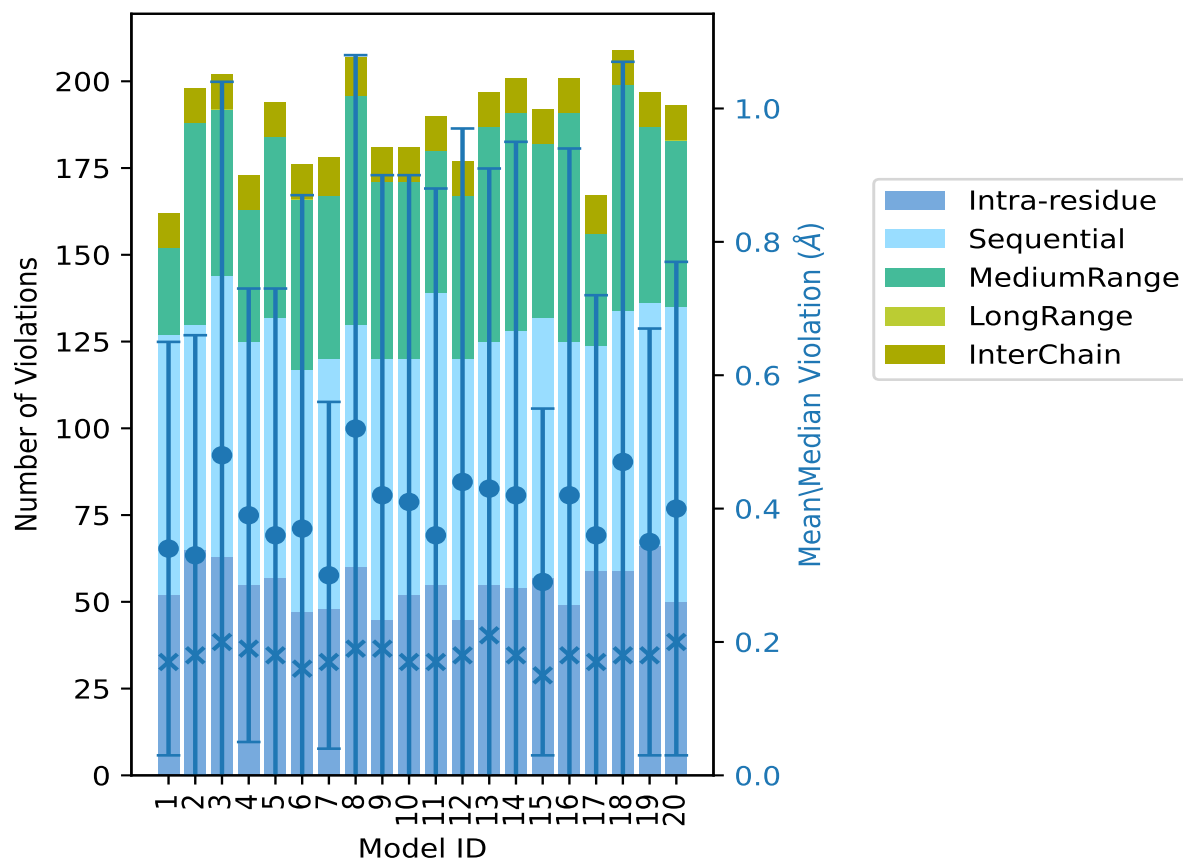
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| Model ID | Number of violations | | | | | Total | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | | | | | |
| 11 | 55 | 84 | 41 | 0 | 10 | 190 | 0.36 | 3.12 | 0.52 | 0.17 |
| 12 | 45 | 75 | 47 | 0 | 10 | 177 | 0.44 | 2.58 | 0.53 | 0.18 |
| 13 | 55 | 70 | 62 | 0 | 10 | 197 | 0.43 | 2.04 | 0.48 | 0.21 |
| 14 | 54 | 74 | 63 | 0 | 10 | 201 | 0.42 | 3.1 | 0.53 | 0.18 |
| 15 | 57 | 75 | 50 | 0 | 10 | 192 | 0.29 | 1.08 | 0.26 | 0.15 |
| 16 | 49 | 76 | 66 | 0 | 10 | 201 | 0.42 | 2.97 | 0.52 | 0.18 |
| 17 | 59 | 65 | 32 | 0 | 11 | 167 | 0.36 | 1.67 | 0.36 | 0.17 |
| 18 | 59 | 75 | 65 | 0 | 10 | 209 | 0.47 | 2.91 | 0.6 | 0.18 |
| 19 | 66 | 70 | 51 | 0 | 10 | 197 | 0.35 | 1.48 | 0.32 | 0.18 |
| 20 | 50 | 85 | 48 | 0 | 10 | 193 | 0.4 | 1.53 | 0.37 | 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



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

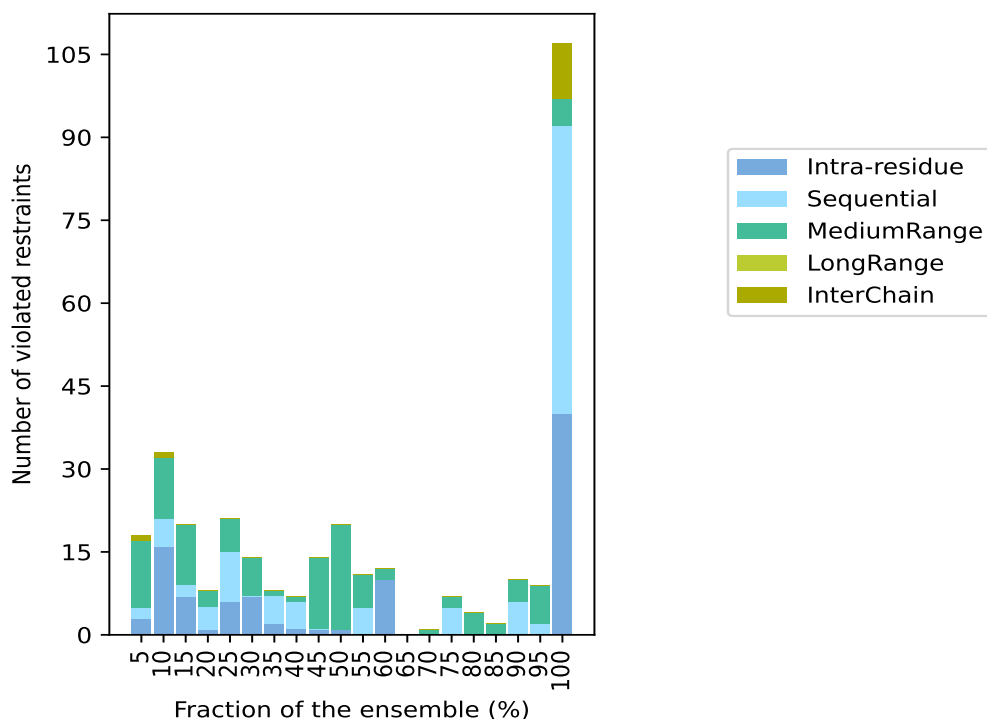
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 2656(IR:780, SQ:598, MR:378, LR:0, IC:900) 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 | % |
| 3 | 2 | 12 | 0 | 1 | 18 | 1 | 5.0 |
| 16 | 5 | 11 | 0 | 1 | 33 | 2 | 10.0 |
| 7 | 2 | 11 | 0 | 0 | 20 | 3 | 15.0 |
| 1 | 4 | 3 | 0 | 0 | 8 | 4 | 20.0 |
| 6 | 9 | 6 | 0 | 0 | 21 | 5 | 25.0 |
| 7 | 0 | 7 | 0 | 0 | 14 | 6 | 30.0 |
| 2 | 5 | 1 | 0 | 0 | 8 | 7 | 35.0 |
| 1 | 5 | 1 | 0 | 0 | 7 | 8 | 40.0 |
| 1 | 0 | 13 | 0 | 0 | 14 | 9 | 45.0 |
| 1 | 0 | 19 | 0 | 0 | 20 | 10 | 50.0 |
| 0 | 5 | 6 | 0 | 0 | 11 | 11 | 55.0 |
| 10 | 0 | 2 | 0 | 0 | 12 | 12 | 60.0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 13 | 65.0 |
| 0 | 0 | 1 | 0 | 0 | 1 | 14 | 70.0 |
| 0 | 5 | 2 | 0 | 0 | 7 | 15 | 75.0 |
| 0 | 0 | 4 | 0 | 0 | 4 | 16 | 80.0 |
| 0 | 0 | 2 | 0 | 0 | 2 | 17 | 85.0 |
| 0 | 6 | 4 | 0 | 0 | 10 | 18 | 90.0 |
| 0 | 2 | 7 | 0 | 0 | 9 | 19 | 95.0 |
| 40 | 52 | 5 | 0 | 10 | 107 | 20 | 100.0 |

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

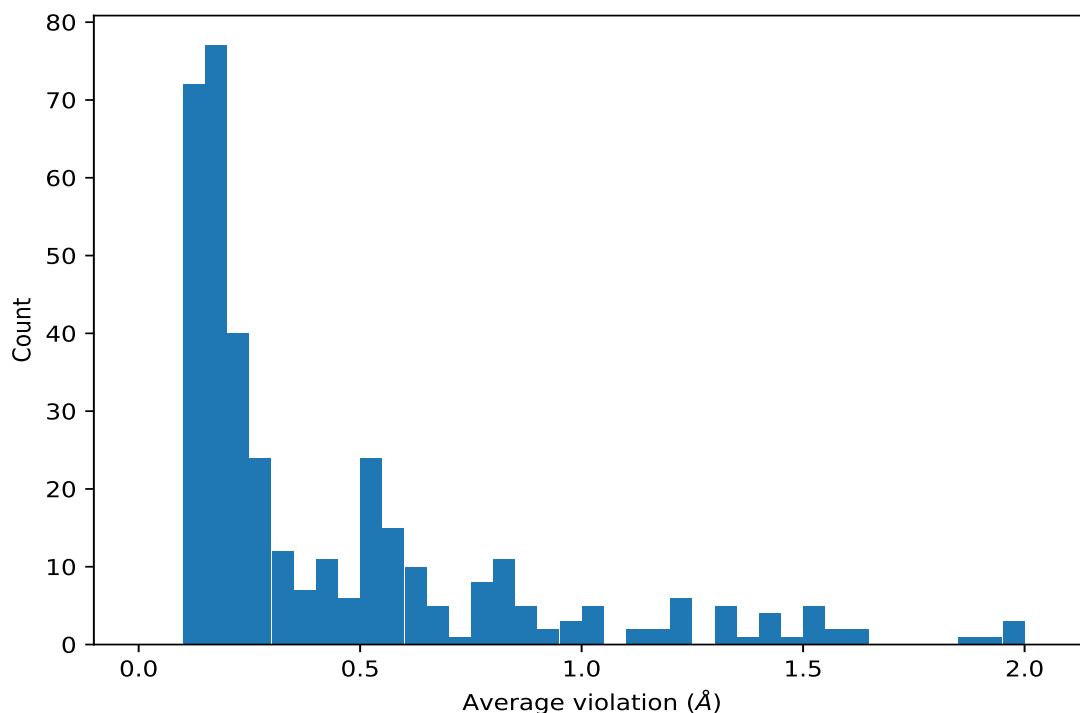
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|---------------|---------------|---------------------|----------|---------------------|------------|
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 20 | 1.03 | 0.02 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 20 | 1.03 | 0.02 | 1.03 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 20 | 1.03 | 0.03 | 1.03 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 20 | 1.03 | 0.03 | 1.03 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 20 | 1.03 | 0.03 | 1.03 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 20 | 0.96 | 0.56 | 0.77 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 20 | 0.96 | 0.57 | 0.77 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 20 | 0.95 | 0.57 | 0.78 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 20 | 0.94 | 0.57 | 0.76 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 20 | 0.94 | 0.57 | 0.7 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 20 | 0.82 | 0.17 | 0.81 |
| (2,2071) | 1:40:A:ILE:CA | 1:44:E:LEU:CA | 20 | 0.82 | 0.17 | 0.81 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 20 | 0.81 | 0.18 | 0.8 |
| (2,2072) | 1:40:B:ILE:CA | 1:44:A:LEU:CA | 20 | 0.81 | 0.18 | 0.8 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 20 | 0.8 | 0.17 | 0.8 |
| (2,2074) | 1:40:D:ILE:CA | 1:44:C:LEU:CA | 20 | 0.8 | 0.17 | 0.8 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 20 | 0.8 | 0.19 | 0.77 |
| (2,2073) | 1:40:C:ILE:CA | 1:44:B:LEU:CA | 20 | 0.8 | 0.19 | 0.77 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 20 | 0.78 | 0.19 | 0.7 |
| (2,2075) | 1:40:E:ILE:CA | 1:44:D:LEU:CA | 20 | 0.78 | 0.19 | 0.7 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 20 | 0.64 | 0.17 | 0.62 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 20 | 0.64 | 0.17 | 0.62 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 20 | 0.59 | 0.21 | 0.52 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 20 | 0.59 | 0.21 | 0.52 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 20 | 0.58 | 0.17 | 0.52 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 20 | 0.58 | 0.17 | 0.52 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 20 | 0.58 | 0.19 | 0.52 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 20 | 0.58 | 0.19 | 0.52 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 20 | 0.58 | 0.15 | 0.56 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 20 | 0.58 | 0.15 | 0.56 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 20 | 0.53 | 0.06 | 0.52 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 20 | 0.53 | 0.06 | 0.52 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 20 | 0.53 | 0.06 | 0.53 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 20 | 0.53 | 0.06 | 0.53 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 20 | 0.53 | 0.06 | 0.52 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 20 | 0.53 | 0.06 | 0.52 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 20 | 0.53 | 0.06 | 0.52 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 20 | 0.53 | 0.06 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 20 | 0.53 | 0.06 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 20 | 0.53 | 0.06 | 0.52 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 20 | 0.49 | 0.05 | 0.5 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 20 | 0.49 | 0.05 | 0.5 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 20 | 0.49 | 0.05 | 0.5 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 20 | 0.49 | 0.05 | 0.49 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 20 | 0.49 | 0.05 | 0.49 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 20 | 0.24 | 0.2 | 0.15 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 20 | 0.24 | 0.2 | 0.15 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 20 | 0.24 | 0.2 | 0.15 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 20 | 0.24 | 0.2 | 0.15 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 20 | 0.24 | 0.2 | 0.15 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 20 | 0.23 | 0.04 | 0.23 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 20 | 0.22 | 0.03 | 0.23 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 20 | 0.22 | 0.03 | 0.23 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 20 | 0.22 | 0.03 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 20 | 0.22 | 0.03 | 0.23 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 20 | 0.19 | 0.02 | 0.18 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 20 | 0.19 | 0.02 | 0.19 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 20 | 0.19 | 0.02 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|----------------|---------------------|----------|---------------------|------------|
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 20 | 0.19 | 0.02 | 0.18 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 20 | 0.19 | 0.02 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 20 | 0.18 | 0.01 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 20 | 0.18 | 0.01 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 20 | 0.18 | 0.01 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 20 | 0.18 | 0.01 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 20 | 0.18 | 0.01 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 20 | 0.18 | 0.01 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 20 | 0.17 | 0.01 | 0.18 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 20 | 0.17 | 0.03 | 0.16 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 20 | 0.17 | 0.03 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 20 | 0.17 | 0.02 | 0.17 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 20 | 0.17 | 0.01 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 20 | 0.17 | 0.01 | 0.17 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 20 | 0.17 | 0.01 | 0.16 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 20 | 0.16 | 0.03 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 20 | 0.16 | 0.03 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 20 | 0.16 | 0.01 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 20 | 0.15 | 0.01 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 20 | 0.15 | 0.0 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 20 | 0.15 | 0.01 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 20 | 0.15 | 0.01 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 20 | 0.15 | 0.01 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 20 | 0.14 | 0.02 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 20 | 0.14 | 0.01 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 20 | 0.14 | 0.0 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 20 | 0.14 | 0.01 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 20 | 0.14 | 0.0 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 20 | 0.14 | 0.0 | 0.14 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 20 | 0.14 | 0.02 | 0.14 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 20 | 0.13 | 0.03 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 20 | 0.12 | 0.01 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 20 | 0.12 | 0.01 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 20 | 0.12 | 0.01 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 20 | 0.12 | 0.01 | 0.12 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 20 | 0.1 | 0.0 | 0.1 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 19 | 0.87 | 0.34 | 0.75 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 19 | 0.87 | 0.33 | 0.78 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 19 | 0.87 | 0.33 | 0.75 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 19 | 0.86 | 0.33 | 0.76 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 19 | 0.86 | 0.33 | 0.74 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 19 | 0.17 | 0.05 | 0.17 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 19 | 0.16 | 0.05 | 0.14 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 19 | 0.13 | 0.02 | 0.13 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 19 | 0.13 | 0.02 | 0.13 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 18 | 0.24 | 0.08 | 0.24 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 18 | 0.2 | 0.07 | 0.19 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 18 | 0.17 | 0.04 | 0.16 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 18 | 0.16 | 0.04 | 0.15 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 18 | 0.13 | 0.01 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 18 | 0.13 | 0.02 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 18 | 0.13 | 0.01 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 18 | 0.13 | 0.01 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 18 | 0.13 | 0.01 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 18 | 0.13 | 0.01 | 0.13 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 17 | 0.25 | 0.08 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|-----------------|---------------------|----------|---------------------|------------|
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 17 | 0.2 | 0.08 | 0.19 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 16 | 0.25 | 0.07 | 0.24 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 16 | 0.24 | 0.06 | 0.22 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 16 | 0.21 | 0.08 | 0.2 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 16 | 0.17 | 0.04 | 0.18 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 15 | 0.35 | 0.08 | 0.33 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 15 | 0.34 | 0.08 | 0.32 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 15 | 0.34 | 0.08 | 0.34 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 15 | 0.33 | 0.08 | 0.33 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 15 | 0.33 | 0.08 | 0.32 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 15 | 0.26 | 0.07 | 0.24 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 15 | 0.2 | 0.08 | 0.18 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 14 | 0.21 | 0.08 | 0.2 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 12 | 1.12 | 0.97 | 0.99 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 12 | 1.12 | 0.97 | 0.99 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 12 | 0.29 | 0.09 | 0.27 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 12 | 0.29 | 0.1 | 0.27 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 12 | 0.29 | 0.09 | 0.27 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 12 | 0.29 | 0.09 | 0.26 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 12 | 0.29 | 0.09 | 0.27 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 12 | 0.16 | 0.02 | 0.16 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 12 | 0.16 | 0.02 | 0.16 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 12 | 0.15 | 0.01 | 0.16 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 12 | 0.15 | 0.01 | 0.16 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 12 | 0.15 | 0.02 | 0.16 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 12 | 0.12 | 0.02 | 0.12 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 11 | 1.51 | 0.65 | 1.69 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 11 | 1.5 | 0.67 | 1.73 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 11 | 1.49 | 0.66 | 1.71 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 11 | 1.22 | 0.97 | 1.01 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 11 | 1.22 | 0.97 | 1.01 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 11 | 1.22 | 0.97 | 1.01 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 11 | 1.22 | 0.97 | 1.01 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 11 | 0.69 | 0.1 | 0.72 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 11 | 0.69 | 0.1 | 0.71 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 11 | 0.69 | 0.1 | 0.72 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 11 | 0.68 | 0.1 | 0.72 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 11 | 0.68 | 0.1 | 0.72 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 11 | 0.3 | 0.17 | 0.29 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 10 | 1.6 | 0.81 | 1.5 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 10 | 1.6 | 0.78 | 1.51 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 10 | 1.58 | 0.78 | 1.51 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|-----------------|---------------------|----------|---------------------|------------|
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 10 | 1.56 | 0.67 | 1.8 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 10 | 1.54 | 0.8 | 1.38 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 10 | 1.53 | 0.8 | 1.38 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 10 | 1.52 | 0.63 | 1.8 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 10 | 1.34 | 0.94 | 1.04 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 10 | 1.34 | 0.94 | 1.04 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 10 | 1.34 | 0.95 | 1.04 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 10 | 1.34 | 0.95 | 1.04 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 10 | 0.6 | 0.11 | 0.58 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 10 | 0.34 | 0.16 | 0.3 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 10 | 0.33 | 0.16 | 0.3 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 10 | 0.33 | 0.17 | 0.29 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 10 | 0.31 | 0.16 | 0.28 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 10 | 0.21 | 0.08 | 0.23 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 10 | 0.21 | 0.08 | 0.2 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 10 | 0.13 | 0.02 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 10 | 0.13 | 0.02 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 10 | 0.13 | 0.02 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 10 | 0.13 | 0.02 | 0.12 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 10 | 0.12 | 0.02 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 10 | 0.12 | 0.01 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 10 | 0.12 | 0.01 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 10 | 0.12 | 0.01 | 0.12 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 9 | 1.97 | 0.8 | 1.94 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 9 | 1.97 | 0.8 | 1.92 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 9 | 1.96 | 0.8 | 1.92 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 9 | 1.9 | 0.75 | 1.93 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 9 | 1.88 | 0.75 | 1.93 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 9 | 0.26 | 0.08 | 0.26 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 9 | 0.22 | 0.07 | 0.22 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 9 | 0.21 | 0.06 | 0.2 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 9 | 0.17 | 0.04 | 0.16 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 9 | 0.17 | 0.04 | 0.16 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 9 | 0.17 | 0.04 | 0.16 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 9 | 0.15 | 0.05 | 0.13 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 9 | 0.15 | 0.05 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 9 | 0.13 | 0.01 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 9 | 0.13 | 0.01 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 9 | 0.13 | 0.01 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 9 | 0.13 | 0.01 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 9 | 0.13 | 0.01 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 9 | 0.13 | 0.01 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|-----------------|---------------------|----------|---------------------|------------|
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 9 | 0.12 | 0.02 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 9 | 0.12 | 0.01 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 9 | 0.12 | 0.01 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 9 | 0.12 | 0.01 | 0.12 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 8 | 0.43 | 0.16 | 0.4 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 8 | 0.37 | 0.09 | 0.36 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 8 | 0.37 | 0.09 | 0.36 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 8 | 0.37 | 0.08 | 0.37 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 8 | 0.36 | 0.1 | 0.38 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 8 | 0.36 | 0.09 | 0.37 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 8 | 0.13 | 0.02 | 0.12 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 7 | 0.8 | 0.25 | 0.9 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 7 | 0.8 | 0.28 | 0.9 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 7 | 0.8 | 0.28 | 0.9 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 7 | 0.79 | 0.28 | 0.9 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 7 | 0.79 | 0.28 | 0.9 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 7 | 0.51 | 0.16 | 0.57 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 7 | 0.5 | 0.22 | 0.54 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 7 | 0.25 | 0.09 | 0.25 |
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 6 | 0.6 | 0.07 | 0.62 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 6 | 0.54 | 0.38 | 0.4 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 6 | 0.52 | 0.38 | 0.4 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 6 | 0.47 | 0.37 | 0.41 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 6 | 0.44 | 0.31 | 0.4 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 6 | 0.18 | 0.05 | 0.16 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 6 | 0.18 | 0.05 | 0.16 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 6 | 0.18 | 0.05 | 0.16 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 6 | 0.17 | 0.07 | 0.15 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 6 | 0.17 | 0.07 | 0.13 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 6 | 0.17 | 0.07 | 0.13 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 6 | 0.13 | 0.01 | 0.13 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 6 | 0.13 | 0.01 | 0.13 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 6 | 0.13 | 0.01 | 0.14 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 6 | 0.13 | 0.02 | 0.14 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 6 | 0.13 | 0.01 | 0.13 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 5 | 0.63 | 0.43 | 0.46 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 5 | 0.61 | 0.44 | 0.43 |
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 5 | 0.61 | 0.44 | 0.39 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 5 | 0.61 | 0.44 | 0.41 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 5 | 0.61 | 0.36 | 0.43 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 5 | 0.6 | 0.44 | 0.41 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|-----------------|---------------------|----------|---------------------|------------|
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 5 | 0.54 | 0.07 | 0.53 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 5 | 0.54 | 0.07 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 5 | 0.54 | 0.08 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 5 | 0.54 | 0.08 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 5 | 0.54 | 0.07 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 5 | 0.54 | 0.07 | 0.53 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 5 | 0.54 | 0.07 | 0.55 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 5 | 0.54 | 0.07 | 0.55 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 5 | 0.53 | 0.06 | 0.53 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 5 | 0.53 | 0.06 | 0.53 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 5 | 0.25 | 0.08 | 0.23 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 5 | 0.25 | 0.08 | 0.23 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 5 | 0.25 | 0.08 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 5 | 0.25 | 0.09 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 5 | 0.25 | 0.09 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 5 | 0.25 | 0.09 | 0.23 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 5 | 0.25 | 0.09 | 0.24 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 5 | 0.25 | 0.09 | 0.24 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 5 | 0.25 | 0.09 | 0.24 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 5 | 0.24 | 0.08 | 0.23 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 5 | 0.24 | 0.08 | 0.23 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 5 | 0.24 | 0.08 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 5 | 0.24 | 0.08 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 5 | 0.24 | 0.08 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 5 | 0.24 | 0.08 | 0.23 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 5 | 0.22 | 0.11 | 0.15 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 5 | 0.22 | 0.11 | 0.15 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 5 | 0.22 | 0.11 | 0.15 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 5 | 0.13 | 0.01 | 0.13 |
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 5 | 0.13 | 0.01 | 0.13 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 5 | 0.13 | 0.01 | 0.13 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 5 | 0.13 | 0.01 | 0.13 |
| (2,542) | 1:20:B:MET:H | 1:19:B:GLU:HA | 4 | 0.37 | 0.22 | 0.32 |
| (2,956) | 1:20:C:MET:H | 1:19:C:GLU:HA | 4 | 0.34 | 0.24 | 0.26 |
| (2,128) | 1:20:A:MET:H | 1:19:A:GLU:HA | 4 | 0.33 | 0.24 | 0.24 |
| (2,1370) | 1:20:D:MET:H | 1:19:D:GLU:HA | 4 | 0.33 | 0.25 | 0.24 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD11 | 4 | 0.15 | 0.03 | 0.15 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD12 | 4 | 0.15 | 0.03 | 0.15 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD13 | 4 | 0.15 | 0.03 | 0.15 |
| (2,1946) | 1:41:E:CYS:H | 1:38:E:ILE:HA | 4 | 0.15 | 0.03 | 0.15 |
| (2,1941) | 1:40:E:ILE:H | 1:37:E:LEU:HA | 4 | 0.14 | 0.02 | 0.15 |
| (2,1113) | 1:40:C:ILE:H | 1:37:C:LEU:HA | 4 | 0.13 | 0.02 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|--------------|-----------------|---------------------|----------|---------------------|------------|
| (2,1242) | 1:52:C:LEU:H | 1:52:C:LEU:HG | 3 | 1.44 | 0.17 | 1.4 |
| (2,2070) | 1:52:E:LEU:H | 1:52:E:LEU:HG | 3 | 1.44 | 0.17 | 1.39 |
| (2,414) | 1:52:A:LEU:H | 1:52:A:LEU:HG | 3 | 1.43 | 0.17 | 1.39 |
| (2,1656) | 1:52:D:LEU:H | 1:52:D:LEU:HG | 3 | 1.43 | 0.17 | 1.39 |
| (2,828) | 1:52:B:LEU:H | 1:52:B:LEU:HG | 3 | 1.37 | 0.19 | 1.27 |
| (2,989) | 1:28:C:LEU:H | 1:25:C:ARG:HA | 3 | 1.32 | 0.45 | 1.51 |
| (2,161) | 1:28:A:LEU:H | 1:25:A:ARG:HA | 3 | 1.2 | 0.61 | 1.48 |
| (2,1817) | 1:28:E:LEU:H | 1:25:E:ARG:HA | 3 | 1.2 | 0.6 | 1.46 |
| (2,575) | 1:28:B:LEU:H | 1:25:B:ARG:HA | 3 | 1.17 | 0.62 | 1.44 |
| (2,1403) | 1:28:D:LEU:H | 1:25:D:ARG:HA | 3 | 1.17 | 0.6 | 1.43 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD1 | 3 | 0.44 | 0.38 | 0.21 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD2 | 3 | 0.44 | 0.38 | 0.21 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD1 | 3 | 0.41 | 0.4 | 0.14 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD2 | 3 | 0.41 | 0.4 | 0.14 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD1 | 3 | 0.41 | 0.38 | 0.17 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD2 | 3 | 0.41 | 0.38 | 0.17 |
| (2,1784) | 1:20:E:MET:H | 1:19:E:GLU:HA | 3 | 0.41 | 0.24 | 0.33 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD1 | 3 | 0.4 | 0.37 | 0.17 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD2 | 3 | 0.4 | 0.37 | 0.17 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD11 | 3 | 0.25 | 0.02 | 0.26 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD12 | 3 | 0.25 | 0.02 | 0.26 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD13 | 3 | 0.25 | 0.02 | 0.26 |
| (2,270) | 1:39:A:LEU:H | 1:36:A:CYS:HA | 3 | 0.21 | 0.08 | 0.22 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB2 | 3 | 0.13 | 0.02 | 0.13 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB3 | 3 | 0.13 | 0.02 | 0.13 |
| (2,103) | 1:16:A:SEP:H | 1:15:A:ALA:HA | 3 | 0.13 | 0.01 | 0.13 |
| (2,1156) | 1:44:C:LEU:H | 1:44:C:LEU:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,1228) | 1:51:C:LEU:H | 1:51:C:LEU:HB3 | 2 | 0.76 | 0.0 | 0.76 |
| (2,814) | 1:51:B:LEU:H | 1:51:B:LEU:HB3 | 2 | 0.76 | 0.01 | 0.76 |
| (2,2056) | 1:51:E:LEU:H | 1:51:E:LEU:HB3 | 2 | 0.76 | 0.01 | 0.76 |
| (2,400) | 1:51:A:LEU:H | 1:51:A:LEU:HB3 | 2 | 0.75 | 0.0 | 0.75 |
| (2,1642) | 1:51:D:LEU:H | 1:51:D:LEU:HB3 | 2 | 0.74 | 0.01 | 0.74 |
| (2,120) | 1:19:A:GLU:H | 1:18:A:ILE:HA | 2 | 0.58 | 0.1 | 0.58 |
| (2,948) | 1:19:C:GLU:H | 1:18:C:ILE:HA | 2 | 0.58 | 0.1 | 0.58 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD1 | 2 | 0.58 | 0.42 | 0.58 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD2 | 2 | 0.58 | 0.42 | 0.58 |
| (2,534) | 1:19:B:GLU:H | 1:18:B:ILE:HA | 2 | 0.57 | 0.11 | 0.57 |
| (2,1362) | 1:19:D:GLU:H | 1:18:D:ILE:HA | 2 | 0.57 | 0.11 | 0.57 |
| (2,1776) | 1:19:E:GLU:H | 1:18:E:ILE:HA | 2 | 0.57 | 0.11 | 0.57 |
| (2,1512) | 1:39:D:LEU:H | 1:36:D:CYS:HA | 2 | 0.26 | 0.0 | 0.26 |
| (2,1447) | 1:32:D:PHE:H | 1:29:D:GLN:HA | 2 | 0.25 | 0.04 | 0.25 |
| (2,1033) | 1:32:C:PHE:H | 1:29:C:GLN:HA | 2 | 0.24 | 0.04 | 0.24 |

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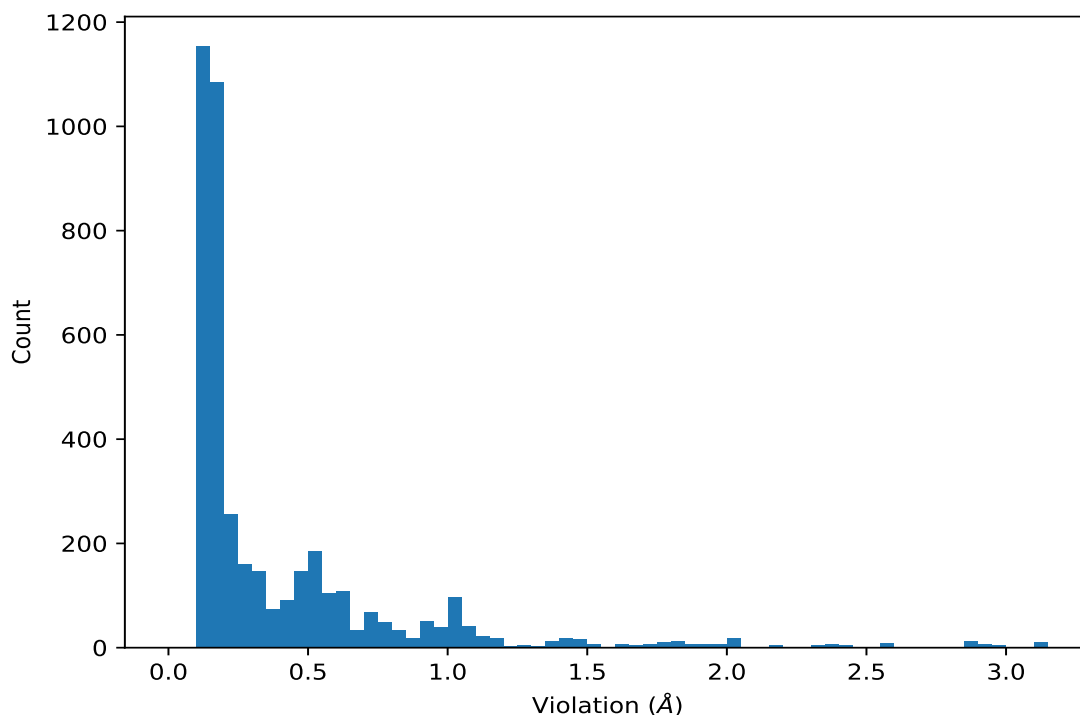
| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|----------------|---------------------|----------|---------------------|------------|
| (2,619) | 1:32:B:PHE:H | 1:29:B:GLN:HA | 2 | 0.24 | 0.03 | 0.24 |
| (2,1861) | 1:32:E:PHE:H | 1:29:E:GLN:HA | 2 | 0.24 | 0.03 | 0.24 |
| (2,205) | 1:32:A:PHE:H | 1:29:A:GLN:HA | 2 | 0.23 | 0.04 | 0.23 |
| (2,225) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (2,1467) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (2,639) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HB3 | 2 | 0.22 | 0.01 | 0.22 |
| (2,1881) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HB3 | 2 | 0.22 | 0.01 | 0.22 |
| (2,1053) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (2,411) | 1:52:A:LEU:H | 1:52:A:LEU:HA | 2 | 0.16 | 0.0 | 0.16 |
| (2,699) | 1:40:B:ILE:H | 1:37:B:LEU:HA | 2 | 0.16 | 0.03 | 0.16 |
| (2,2067) | 1:52:E:LEU:H | 1:52:E:LEU:HA | 2 | 0.16 | 0.0 | 0.16 |
| (2,825) | 1:52:B:LEU:H | 1:52:B:LEU:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,1239) | 1:52:C:LEU:H | 1:52:C:LEU:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,1653) | 1:52:D:LEU:H | 1:52:D:LEU:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB3 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1527) | 1:40:D:ILE:H | 1:37:D:LEU:HA | 2 | 0.13 | 0.02 | 0.13 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (2,813) | 1:51:B:LEU:H | 1:51:B:LEU:HA | 2 | 0.11 | 0.01 | 0.11 |
| (2,2127) | 1:47:C:ILE:CG2 | 1:44:B:LEU:CD2 | 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) |
|----------|--------------|-----------------|----------|---------------|
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 11 | 3.12 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 11 | 3.12 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 11 | 3.12 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 11 | 3.12 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 11 | 3.11 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 11 | 3.11 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 11 | 3.11 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 11 | 3.11 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 14 | 3.1 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 11 | 3.1 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 11 | 3.1 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 14 | 2.99 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 16 | 2.97 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 16 | 2.95 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 16 | 2.95 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 14 | 2.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 14 | 2.91 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 18 | 2.91 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 18 | 2.9 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 18 | 2.9 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 18 | 2.9 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 18 | 2.89 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 14 | 2.88 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 6 | 2.85 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 6 | 2.85 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 6 | 2.85 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 6 | 2.85 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 6 | 2.85 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 6 | 2.85 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 6 | 2.85 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 6 | 2.85 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 6 | 2.85 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 6 | 2.85 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 3 | 2.6 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 3 | 2.59 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 12 | 2.58 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 3 | 2.57 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 3 | 2.57 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 3 | 2.56 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 12 | 2.56 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 12 | 2.55 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 12 | 2.55 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 12 | 2.55 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 10 | 2.47 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 10 | 2.44 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 10 | 2.44 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 10 | 2.43 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 8 | 2.4 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 8 | 2.4 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 8 | 2.39 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 8 | 2.39 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 8 | 2.38 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 16 | 2.37 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 16 | 2.37 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 9 | 2.35 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 9 | 2.33 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 9 | 2.32 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 9 | 2.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 9 | 2.31 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 18 | 2.19 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 18 | 2.18 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 18 | 2.18 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 18 | 2.17 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 18 | 2.17 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 10 | 2.12 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 3 | 2.07 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 3 | 2.04 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 3 | 2.04 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 8 | 2.04 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 12 | 2.04 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 12 | 2.04 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 8 | 2.04 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 3 | 2.04 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 13 | 2.04 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 13 | 2.04 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 3 | 2.03 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 8 | 2.03 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 8 | 2.02 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 13 | 2.02 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 8 | 2.02 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 13 | 2.01 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 12 | 2.01 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 12 | 2.01 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 12 | 2.0 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 12 | 2.0 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 13 | 1.99 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 12 | 1.99 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 12 | 1.99 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 12 | 1.98 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 12 | 1.98 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 16 | 1.96 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 13 | 1.94 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 13 | 1.93 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 13 | 1.93 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 13 | 1.92 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 16 | 1.92 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 13 | 1.92 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 3 | 1.88 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 3 | 1.87 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 3 | 1.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|---------------|----------|---------------|
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 3 | 1.87 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 16 | 1.86 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 3 | 1.86 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 18 | 1.84 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 18 | 1.84 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 18 | 1.83 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 18 | 1.83 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 18 | 1.83 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 16 | 1.82 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 16 | 1.82 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 13 | 1.81 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 2 | 1.8 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 13 | 1.8 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 13 | 1.8 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 13 | 1.8 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 2 | 1.79 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 2 | 1.79 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 2 | 1.78 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 13 | 1.78 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 2 | 1.77 |
| (2,161) | 1:28:A:LEU:H | 1:25:A:ARG:HA | 9 | 1.77 |
| (2,1817) | 1:28:E:LEU:H | 1:25:E:ARG:HA | 9 | 1.76 |
| (2,575) | 1:28:B:LEU:H | 1:25:B:ARG:HA | 9 | 1.76 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 10 | 1.75 |
| (2,989) | 1:28:C:LEU:H | 1:25:C:ARG:HA | 9 | 1.75 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 10 | 1.75 |
| (2,1403) | 1:28:D:LEU:H | 1:25:D:ARG:HA | 9 | 1.74 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 8 | 1.74 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 10 | 1.73 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 8 | 1.73 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 8 | 1.72 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 10 | 1.72 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 8 | 1.71 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 8 | 1.69 |
| (2,2070) | 1:52:E:LEU:H | 1:52:E:LEU:HG | 17 | 1.67 |
| (2,1656) | 1:52:D:LEU:H | 1:52:D:LEU:HG | 17 | 1.66 |
| (2,1242) | 1:52:C:LEU:H | 1:52:C:LEU:HG | 17 | 1.66 |
| (2,414) | 1:52:A:LEU:H | 1:52:A:LEU:HG | 17 | 1.66 |
| (2,828) | 1:52:B:LEU:H | 1:52:B:LEU:HG | 17 | 1.64 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 5 | 1.64 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 5 | 1.63 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 5 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|---------------|----------|---------------|
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 5 | 1.63 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 5 | 1.63 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 10 | 1.57 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 20 | 1.53 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 20 | 1.52 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 20 | 1.52 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 20 | 1.51 |
| (2,989) | 1:28:C:LEU:H | 1:25:C:ARG:HA | 14 | 1.51 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 20 | 1.5 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 18 | 1.49 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 8 | 1.48 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 19 | 1.48 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 18 | 1.48 |
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 8 | 1.48 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 8 | 1.48 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 18 | 1.48 |
| (2,161) | 1:28:A:LEU:H | 1:25:A:ARG:HA | 14 | 1.48 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 1 | 1.47 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 18 | 1.47 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 8 | 1.47 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 8 | 1.47 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 19 | 1.47 |
| (2,1817) | 1:28:E:LEU:H | 1:25:E:ARG:HA | 14 | 1.46 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 18 | 1.46 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 20 | 1.45 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 19 | 1.45 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 1 | 1.44 |
| (2,575) | 1:28:B:LEU:H | 1:25:B:ARG:HA | 14 | 1.44 |
| (2,1403) | 1:28:D:LEU:H | 1:25:D:ARG:HA | 14 | 1.43 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 20 | 1.43 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 20 | 1.42 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 20 | 1.42 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 19 | 1.42 |
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 12 | 1.41 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 1 | 1.41 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 4 | 1.41 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 1 | 1.41 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 4 | 1.41 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 20 | 1.41 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 4 | 1.4 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 12 | 1.4 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 1 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (2,1242) | 1:52:C:LEU:H | 1:52:C:LEU:HG | 8 | 1.4 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 19 | 1.4 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 12 | 1.4 |
| (2,2070) | 1:52:E:LEU:H | 1:52:E:LEU:HG | 8 | 1.39 |
| (2,1656) | 1:52:D:LEU:H | 1:52:D:LEU:HG | 8 | 1.39 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 4 | 1.39 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 16 | 1.39 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 4 | 1.39 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 16 | 1.39 |
| (2,414) | 1:52:A:LEU:H | 1:52:A:LEU:HG | 8 | 1.39 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 5 | 1.38 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 12 | 1.38 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 16 | 1.37 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 12 | 1.37 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 5 | 1.37 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 14 | 1.36 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 5 | 1.33 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 5 | 1.31 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 5 | 1.3 |
| (2,828) | 1:52:B:LEU:H | 1:52:B:LEU:HG | 8 | 1.27 |
| (2,2070) | 1:52:E:LEU:H | 1:52:E:LEU:HG | 20 | 1.25 |
| (2,1656) | 1:52:D:LEU:H | 1:52:D:LEU:HG | 20 | 1.25 |
| (2,1242) | 1:52:C:LEU:H | 1:52:C:LEU:HG | 20 | 1.25 |
| (2,414) | 1:52:A:LEU:H | 1:52:A:LEU:HG | 20 | 1.25 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 10 | 1.24 |
| (2,828) | 1:52:B:LEU:H | 1:52:B:LEU:HG | 20 | 1.2 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 6 | 1.2 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 14 | 1.19 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 11 | 1.18 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 11 | 1.17 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 14 | 1.17 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 6 | 1.17 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 6 | 1.16 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 7 | 1.15 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 11 | 1.15 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 17 | 1.15 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 3 | 1.15 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 4 | 1.15 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 4 | 1.15 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 17 | 1.15 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 6 | 1.15 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 11 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 17 | 1.15 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 4 | 1.15 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 4 | 1.15 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 14 | 1.14 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 6 | 1.14 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 17 | 1.14 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 3 | 1.14 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 11 | 1.14 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 4 | 1.14 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 4 | 1.14 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 4 | 1.13 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 4 | 1.13 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 3 | 1.13 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 3 | 1.13 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 14 | 1.13 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 8 | 1.12 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 8 | 1.12 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 3 | 1.12 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 17 | 1.11 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 8 | 1.1 |
| (2,2072) | 1:40:B:ILE:CA | 1:44:A:LEU:CA | 5 | 1.1 |
| (2,2072) | 1:40:B:ILE:CA | 1:44:A:LEU:CA | 8 | 1.1 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 6 | 1.1 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 6 | 1.1 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 4 | 1.1 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 4 | 1.1 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 9 | 1.09 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 14 | 1.09 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 6 | 1.09 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 14 | 1.09 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 6 | 1.09 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 6 | 1.09 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 5 | 1.08 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 7 | 1.08 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 10 | 1.08 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 15 | 1.08 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 15 | 1.08 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 10 | 1.08 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 9 | 1.07 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 8 | 1.07 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 18 | 1.07 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 15 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 15 | 1.07 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 10 | 1.07 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 18 | 1.07 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 10 | 1.07 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 14 | 1.07 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 18 | 1.07 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 18 | 1.07 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 15 | 1.07 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 15 | 1.07 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 9 | 1.06 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 10 | 1.06 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 18 | 1.06 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 10 | 1.06 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 10 | 1.06 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 8 | 1.06 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 10 | 1.05 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 11 | 1.05 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 15 | 1.05 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 15 | 1.05 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 1 | 1.05 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 8 | 1.05 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 20 | 1.05 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 15 | 1.05 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 15 | 1.05 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 1 | 1.05 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 10 | 1.05 |
| (2,2071) | 1:40:A:ILE:CA | 1:44:E:LEU:CA | 5 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 1 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 4 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 8 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 11 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 20 | 1.04 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 1 | 1.04 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 4 | 1.04 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 8 | 1.04 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 20 | 1.04 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 3 | 1.04 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 4 | 1.04 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 11 | 1.04 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 20 | 1.04 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 19 | 1.04 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 1 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|---------------|-----------------|----------|---------------|
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 3 | 1.04 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 11 | 1.04 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 17 | 1.04 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 4 | 1.04 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 11 | 1.04 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 13 | 1.04 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 5 | 1.03 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 9 | 1.03 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 13 | 1.03 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 17 | 1.03 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 5 | 1.03 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 9 | 1.03 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 13 | 1.03 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 17 | 1.03 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 5 | 1.03 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 9 | 1.03 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 13 | 1.03 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 17 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 4 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 5 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 8 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 9 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 13 | 1.03 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 14 | 1.03 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 16 | 1.03 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 19 | 1.03 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 14 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 3 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 5 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 9 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 12 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 17 | 1.03 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 20 | 1.03 |
| (2,2073) | 1:40:C:ILE:CA | 1:44:B:LEU:CA | 7 | 1.02 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 18 | 1.02 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 2 | 1.02 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 19 | 1.02 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 2 | 1.02 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 5 | 1.02 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 5 | 1.02 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 19 | 1.02 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 2 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 2 | 1.02 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 2 | 1.02 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 18 | 1.01 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 3 | 1.01 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 16 | 1.01 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 5 | 1.01 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 5 | 1.01 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 3 | 1.01 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 14 | 1.01 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 15 | 1.01 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 7 | 1.01 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 14 | 1.01 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 5 | 1.01 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 5 | 1.01 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 7 | 1.01 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 5 | 1.01 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 5 | 1.01 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 7 | 1.01 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 14 | 1.01 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 5 | 1.01 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 5 | 1.01 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 19 | 1.01 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 9 | 1.0 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 7 | 1.0 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 12 | 1.0 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 14 | 1.0 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 15 | 1.0 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 7 | 1.0 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 12 | 1.0 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 19 | 1.0 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 16 | 1.0 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD1 | 10 | 1.0 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD2 | 10 | 1.0 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 12 | 1.0 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 15 | 1.0 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 19 | 1.0 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 16 | 1.0 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 19 | 1.0 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 8 | 0.99 |
| (2,2075) | 1:40:E:ILE:CA | 1:44:D:LEU:CA | 2 | 0.99 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 18 | 0.99 |
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 16 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1858) | 1:31:E:LEU:H | 1:31:E:LEU:HG | 19 | 0.99 |
| (2,1444) | 1:31:D:LEU:H | 1:31:D:LEU:HG | 16 | 0.99 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 16 | 0.99 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 14 | 0.99 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 12 | 0.99 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 15 | 0.99 |
| (2,1030) | 1:31:C:LEU:H | 1:31:C:LEU:HG | 19 | 0.99 |
| (2,616) | 1:31:B:LEU:H | 1:31:B:LEU:HG | 16 | 0.99 |
| (2,202) | 1:31:A:LEU:H | 1:31:A:LEU:HG | 15 | 0.99 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 1 | 0.98 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 9 | 0.98 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD1 | 10 | 0.98 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD2 | 10 | 0.98 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 19 | 0.98 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD1 | 10 | 0.98 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD2 | 10 | 0.98 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 8 | 0.98 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 8 | 0.98 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 18 | 0.97 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 18 | 0.97 |
| (2,2072) | 1:40:B:ILE:CA | 1:44:A:LEU:CA | 7 | 0.97 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 8 | 0.97 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 8 | 0.97 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 8 | 0.97 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 8 | 0.97 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 8 | 0.97 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 8 | 0.97 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 8 | 0.97 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 8 | 0.97 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 9 | 0.96 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 4 | 0.96 |
| (2,2075) | 1:40:E:ILE:CA | 1:44:D:LEU:CA | 5 | 0.96 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 18 | 0.96 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 19 | 0.96 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 19 | 0.95 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 4 | 0.94 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 4 | 0.94 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 4 | 0.94 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 1 | 0.94 |
| (2,2071) | 1:40:A:ILE:CA | 1:44:E:LEU:CA | 2 | 0.94 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 3 | 0.94 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 3 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD1 | 10 | 0.94 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD2 | 10 | 0.94 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 19 | 0.94 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 3 | 0.94 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 3 | 0.94 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 4 | 0.93 |
| (2,2074) | 1:40:D:ILE:CA | 1:44:C:LEU:CA | 2 | 0.93 |
| (2,2072) | 1:40:B:ILE:CA | 1:44:A:LEU:CA | 2 | 0.93 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 4 | 0.93 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 19 | 0.93 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 9 | 0.93 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 8 | 0.92 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 4 | 0.92 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 8 | 0.92 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD1 | 10 | 0.92 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD2 | 10 | 0.92 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 2 | 0.92 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 9 | 0.92 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 3 | 0.92 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 4 | 0.91 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 4 | 0.91 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 18 | 0.91 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 9 | 0.91 |
| (2,2073) | 1:40:C:ILE:CA | 1:44:B:LEU:CA | 2 | 0.91 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 20 | 0.91 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 7 | 0.91 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 3 | 0.91 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 20 | 0.91 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 9 | 0.91 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 2 | 0.91 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 9 | 0.9 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 18 | 0.9 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 15 | 0.9 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 9 | 0.9 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 7 | 0.9 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 15 | 0.9 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 7 | 0.9 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 15 | 0.9 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 3 | 0.9 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 7 | 0.9 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 15 | 0.9 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 3 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|---------------|----------|---------------|
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 7 | 0.9 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 15 | 0.9 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 8 | 0.89 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 1 | 0.89 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 19 | 0.89 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 9 | 0.89 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 20 | 0.89 |
| (2,2074) | 1:40:D:ILE:CA | 1:44:C:LEU:CA | 5 | 0.88 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 19 | 0.88 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 3 | 0.88 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 9 | 0.87 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 3 | 0.87 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 19 | 0.85 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 17 | 0.85 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 20 | 0.85 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 20 | 0.85 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 20 | 0.85 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 8 | 0.85 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 8 | 0.85 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 8 | 0.85 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 8 | 0.84 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 17 | 0.84 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 16 | 0.84 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 20 | 0.84 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 1 | 0.84 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 20 | 0.84 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 20 | 0.84 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 4 | 0.83 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 9 | 0.83 |
| (2,2074) | 1:40:D:ILE:CA | 1:44:C:LEU:CA | 7 | 0.83 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 3 | 0.83 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 17 | 0.83 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 1 | 0.83 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 8 | 0.83 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 1 | 0.83 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 1 | 0.83 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 20 | 0.83 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 1 | 0.83 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 3 | 0.82 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 14 | 0.82 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 3 | 0.82 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 19 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 16 | 0.82 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 6 | 0.82 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 16 | 0.82 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 8 | 0.81 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 17 | 0.81 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 18 | 0.8 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 3 | 0.8 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 20 | 0.8 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 3 | 0.8 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 14 | 0.8 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 17 | 0.8 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 20 | 0.79 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 17 | 0.79 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 17 | 0.79 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 14 | 0.78 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 20 | 0.78 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 14 | 0.78 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 16 | 0.78 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 8 | 0.78 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 7 | 0.78 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 6 | 0.77 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 16 | 0.77 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 16 | 0.77 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 16 | 0.77 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 6 | 0.77 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 16 | 0.77 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 16 | 0.77 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 16 | 0.77 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 16 | 0.77 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 17 | 0.76 |
| (2,2056) | 1:51:E:LEU:H | 1:51:E:LEU:HB3 | 19 | 0.76 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 9 | 0.76 |
| (2,1228) | 1:51:C:LEU:H | 1:51:C:LEU:HB3 | 5 | 0.76 |
| (2,1228) | 1:51:C:LEU:H | 1:51:C:LEU:HB3 | 19 | 0.76 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 7 | 0.76 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 9 | 0.76 |
| (2,814) | 1:51:B:LEU:H | 1:51:B:LEU:HB3 | 19 | 0.76 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 9 | 0.76 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 18 | 0.76 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 5 | 0.75 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 20 | 0.75 |
| (2,2056) | 1:51:E:LEU:H | 1:51:E:LEU:HB3 | 5 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 8 | 0.75 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 18 | 0.75 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 4 | 0.75 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 9 | 0.75 |
| (2,1642) | 1:51:D:LEU:H | 1:51:D:LEU:HB3 | 19 | 0.75 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 18 | 0.75 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 6 | 0.75 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 17 | 0.75 |
| (2,814) | 1:51:B:LEU:H | 1:51:B:LEU:HB3 | 5 | 0.75 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 6 | 0.75 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 16 | 0.75 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 4 | 0.75 |
| (2,400) | 1:51:A:LEU:H | 1:51:A:LEU:HB3 | 5 | 0.75 |
| (2,400) | 1:51:A:LEU:H | 1:51:A:LEU:HB3 | 19 | 0.75 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 8 | 0.75 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 4 | 0.75 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 9 | 0.75 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 11 | 0.74 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 7 | 0.74 |
| (2,1642) | 1:51:D:LEU:H | 1:51:D:LEU:HB3 | 5 | 0.74 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 5 | 0.74 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 7 | 0.74 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 4 | 0.74 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 13 | 0.74 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 5 | 0.74 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 8 | 0.74 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 4 | 0.74 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 18 | 0.74 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 7 | 0.74 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 13 | 0.74 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 19 | 0.73 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 5 | 0.73 |
| (2,1784) | 1:20:E:MET:H | 1:19:E:GLU:HA | 18 | 0.73 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 12 | 0.73 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 13 | 0.73 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 19 | 0.73 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 8 | 0.73 |
| (2,1370) | 1:20:D:MET:H | 1:19:D:GLU:HA | 18 | 0.73 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 19 | 0.73 |
| (2,956) | 1:20:C:MET:H | 1:19:C:GLU:HA | 18 | 0.73 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 13 | 0.73 |
| (2,542) | 1:20:B:MET:H | 1:19:B:GLU:HA | 18 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 13 | 0.73 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 19 | 0.73 |
| (2,128) | 1:20:A:MET:H | 1:19:A:GLU:HA | 18 | 0.73 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 6 | 0.72 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 20 | 0.72 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 14 | 0.72 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 14 | 0.72 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 12 | 0.72 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 14 | 0.72 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 18 | 0.72 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 12 | 0.72 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 14 | 0.72 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 14 | 0.72 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 19 | 0.72 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 5 | 0.72 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 12 | 0.72 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 5 | 0.72 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 6 | 0.72 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 12 | 0.72 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 14 | 0.72 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 7 | 0.71 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 14 | 0.71 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 6 | 0.71 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 14 | 0.71 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 6 | 0.71 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 14 | 0.71 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 6 | 0.71 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 2 | 0.71 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 6 | 0.71 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 14 | 0.71 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 14 | 0.71 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 2 | 0.7 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 11 | 0.7 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 11 | 0.7 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 11 | 0.7 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 11 | 0.7 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 17 | 0.7 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 2 | 0.7 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 2 | 0.7 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 2 | 0.7 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 2 | 0.7 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 2 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 2 | 0.7 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 2 | 0.7 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 2 | 0.69 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 14 | 0.69 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 17 | 0.69 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 6 | 0.69 |
| (2,989) | 1:28:C:LEU:H | 1:25:C:ARG:HA | 10 | 0.69 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 6 | 0.68 |
| (2,1776) | 1:19:E:GLU:H | 1:18:E:ILE:HA | 13 | 0.68 |
| (2,1362) | 1:19:D:GLU:H | 1:18:D:ILE:HA | 13 | 0.68 |
| (2,948) | 1:19:C:GLU:H | 1:18:C:ILE:HA | 13 | 0.68 |
| (2,534) | 1:19:B:GLU:H | 1:18:B:ILE:HA | 13 | 0.68 |
| (2,120) | 1:19:A:GLU:H | 1:18:A:ILE:HA | 13 | 0.68 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 17 | 0.67 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 2 | 0.67 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 1 | 0.67 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 6 | 0.67 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 17 | 0.67 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 1 | 0.67 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 6 | 0.67 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 10 | 0.67 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 10 | 0.67 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 4 | 0.67 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 10 | 0.67 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 10 | 0.67 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 10 | 0.67 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 5 | 0.66 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 10 | 0.66 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 3 | 0.65 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 2 | 0.65 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 3 | 0.65 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 20 | 0.65 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 15 | 0.65 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 3 | 0.65 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 3 | 0.65 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 17 | 0.65 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 5 | 0.64 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 13 | 0.64 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 11 | 0.64 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 15 | 0.64 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 3 | 0.64 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 3 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 16 | 0.64 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 16 | 0.64 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 11 | 0.64 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 16 | 0.64 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 16 | 0.64 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 4 | 0.64 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 11 | 0.64 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 3 | 0.63 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 14 | 0.63 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 18 | 0.63 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 4 | 0.63 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 17 | 0.63 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 16 | 0.63 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 16 | 0.63 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 7 | 0.63 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 11 | 0.63 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 15 | 0.63 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 17 | 0.63 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 3 | 0.63 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 3 | 0.63 |
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 13 | 0.63 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 17 | 0.63 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 15 | 0.63 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 4 | 0.63 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 17 | 0.63 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 3 | 0.62 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 1 | 0.62 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 3 | 0.62 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 20 | 0.62 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 17 | 0.62 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 13 | 0.62 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 16 | 0.62 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 16 | 0.62 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 13 | 0.62 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 15 | 0.62 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 12 | 0.62 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 12 | 0.62 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 4 | 0.62 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 17 | 0.62 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 12 | 0.62 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 12 | 0.62 |
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 9 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 18 | 0.62 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 7 | 0.62 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 4 | 0.62 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 12 | 0.62 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 12 | 0.62 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 12 | 0.62 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 12 | 0.62 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 16 | 0.62 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 16 | 0.62 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 11 | 0.61 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 16 | 0.61 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 16 | 0.61 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 10 | 0.61 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 16 | 0.61 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 3 | 0.61 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 3 | 0.61 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 4 | 0.61 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 12 | 0.61 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 12 | 0.61 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 20 | 0.61 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 11 | 0.61 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 13 | 0.61 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 13 | 0.61 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 13 | 0.61 |
| (2,990) | 1:28:C:LEU:H | 1:24:C:ALA:HA | 13 | 0.61 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 15 | 0.61 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 13 | 0.61 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 13 | 0.61 |
| (2,576) | 1:28:B:LEU:H | 1:24:B:ALA:HA | 13 | 0.61 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 3 | 0.61 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 3 | 0.61 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 9 | 0.61 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 4 | 0.61 |
| (2,162) | 1:28:A:LEU:H | 1:24:A:ALA:HA | 13 | 0.61 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 11 | 0.6 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 11 | 0.6 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 17 | 0.6 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 10 | 0.6 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 10 | 0.6 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 10 | 0.6 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 13 | 0.6 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 7 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 15 | 0.6 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 13 | 0.6 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 13 | 0.6 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 9 | 0.6 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 7 | 0.6 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 13 | 0.6 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 13 | 0.6 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 15 | 0.6 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 15 | 0.6 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 9 | 0.6 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 15 | 0.6 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 15 | 0.6 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 15 | 0.6 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 15 | 0.6 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 4 | 0.6 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 15 | 0.6 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 10 | 0.6 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 13 | 0.6 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 13 | 0.6 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 13 | 0.59 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 15 | 0.59 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 16 | 0.59 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 10 | 0.59 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 3 | 0.59 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 3 | 0.59 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 15 | 0.59 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 15 | 0.59 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 4 | 0.59 |
| (2,1404) | 1:28:D:LEU:H | 1:24:D:ALA:HA | 13 | 0.59 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 4 | 0.59 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 7 | 0.59 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 10 | 0.59 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 15 | 0.59 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 15 | 0.59 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 20 | 0.59 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 10 | 0.59 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 7 | 0.59 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 15 | 0.59 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 15 | 0.59 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 20 | 0.58 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 1 | 0.58 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 15 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 19 | 0.58 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 15 | 0.58 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 13 | 0.58 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 15 | 0.58 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 12 | 0.58 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 12 | 0.58 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 10 | 0.58 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 10 | 0.58 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 19 | 0.58 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 19 | 0.58 |
| (2,1818) | 1:28:E:LEU:H | 1:24:E:ALA:HA | 13 | 0.58 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 12 | 0.58 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 12 | 0.58 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 10 | 0.58 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 3 | 0.58 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 3 | 0.58 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 20 | 0.58 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 12 | 0.58 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 12 | 0.58 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 16 | 0.58 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 18 | 0.58 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 3 | 0.58 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 3 | 0.58 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 19 | 0.58 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 19 | 0.58 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 10 | 0.58 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 3 | 0.58 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 3 | 0.58 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 19 | 0.58 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 19 | 0.58 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 20 | 0.58 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 12 | 0.58 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 12 | 0.58 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 10 | 0.58 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 10 | 0.58 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 20 | 0.58 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 11 | 0.57 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 13 | 0.57 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 15 | 0.57 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 16 | 0.57 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 10 | 0.57 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 10 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 10 | 0.57 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 10 | 0.57 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 12 | 0.57 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 12 | 0.57 |
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 4 | 0.57 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 10 | 0.57 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 10 | 0.57 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 10 | 0.57 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 3 | 0.57 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 3 | 0.57 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 19 | 0.57 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 19 | 0.57 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 2 | 0.56 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 1 | 0.56 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 14 | 0.56 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 16 | 0.56 |
| (2,2071) | 1:33:A:ILE:CA | 1:37:E:LEU:CA | 12 | 0.56 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 1 | 0.56 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 10 | 0.56 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 19 | 0.56 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 19 | 0.56 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 1 | 0.56 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 10 | 0.56 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 10 | 0.56 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 14 | 0.56 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 14 | 0.56 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 14 | 0.56 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 19 | 0.55 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 20 | 0.55 |
| (2,2075) | 1:33:E:ILE:CA | 1:37:D:LEU:CA | 12 | 0.55 |
| (2,2073) | 1:33:C:ILE:CA | 1:37:B:LEU:CA | 12 | 0.55 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 12 | 0.55 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 1 | 0.55 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 14 | 0.55 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 13 | 0.55 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 13 | 0.55 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 4 | 0.55 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 14 | 0.55 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 14 | 0.55 |
| (2,2072) | 1:33:B:ILE:CA | 1:37:A:LEU:CA | 12 | 0.54 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 2 | 0.54 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 4 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 7 | 0.54 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 7 | 0.54 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 14 | 0.54 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 14 | 0.54 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 4 | 0.54 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 14 | 0.54 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 12 | 0.54 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 1 | 0.54 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 2 | 0.54 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 2 | 0.54 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 14 | 0.54 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 14 | 0.54 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 4 | 0.54 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 14 | 0.54 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 8 | 0.54 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 4 | 0.54 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 1 | 0.54 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 1 | 0.54 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 20 | 0.53 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 11 | 0.53 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 11 | 0.53 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 13 | 0.53 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 13 | 0.53 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 4 | 0.53 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 2 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 11 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 11 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 13 | 0.53 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 13 | 0.53 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 1 | 0.53 |
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 2 | 0.53 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 7 | 0.53 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 7 | 0.53 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 11 | 0.53 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 11 | 0.53 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 13 | 0.53 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 13 | 0.53 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 10 | 0.53 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 12 | 0.53 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 4 | 0.53 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 14 | 0.53 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 2 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 7 | 0.53 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 7 | 0.53 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 11 | 0.53 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 11 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 11 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 11 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 13 | 0.53 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 13 | 0.53 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 4 | 0.53 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 12 | 0.53 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 1 | 0.53 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 2 | 0.53 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 12 | 0.53 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 11 | 0.52 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 14 | 0.52 |
| (2,2074) | 1:33:D:ILE:CA | 1:37:C:LEU:CA | 12 | 0.52 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 8 | 0.52 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 20 | 0.52 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 2 | 0.52 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 2 | 0.52 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 11 | 0.52 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 11 | 0.52 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 4 | 0.52 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 2 | 0.52 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 11 | 0.52 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 1 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 2 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 2 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 11 | 0.52 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 11 | 0.52 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 2 | 0.52 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 20 | 0.52 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 2 | 0.52 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 2 | 0.52 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 2 | 0.52 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 11 | 0.52 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 11 | 0.52 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 11 | 0.52 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 11 | 0.52 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 2 | 0.52 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 2 | 0.52 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 2 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 7 | 0.52 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 7 | 0.52 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 8 | 0.52 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 12 | 0.51 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 15 | 0.51 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 15 | 0.51 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 19 | 0.51 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 15 | 0.51 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 12 | 0.51 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 19 | 0.51 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 7 | 0.51 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 11 | 0.51 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 17 | 0.51 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 8 | 0.51 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 8 | 0.51 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 9 | 0.51 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 9 | 0.51 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 18 | 0.51 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 18 | 0.51 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 8 | 0.51 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 12 | 0.51 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 7 | 0.51 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 17 | 0.51 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 20 | 0.51 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 8 | 0.51 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 8 | 0.51 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 14 | 0.51 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 14 | 0.51 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 8 | 0.51 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 5 | 0.51 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 1 | 0.51 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 7 | 0.51 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 11 | 0.51 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 12 | 0.51 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 8 | 0.51 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 8 | 0.51 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 8 | 0.51 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 11 | 0.51 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 7 | 0.51 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 7 | 0.51 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 8 | 0.51 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 11 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 17 | 0.51 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 20 | 0.51 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 9 | 0.51 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 9 | 0.51 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 11 | 0.51 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 11 | 0.51 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 13 | 0.5 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 19 | 0.5 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 16 | 0.5 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 13 | 0.5 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 15 | 0.5 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 1 | 0.5 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 16 | 0.5 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 19 | 0.5 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 12 | 0.5 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 1 | 0.5 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 1 | 0.5 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 17 | 0.5 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 17 | 0.5 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 8 | 0.5 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 1 | 0.5 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 16 | 0.5 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 3 | 0.5 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 16 | 0.5 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 9 | 0.5 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 9 | 0.5 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 18 | 0.5 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 18 | 0.5 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 4 | 0.5 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 19 | 0.5 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 1 | 0.5 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 1 | 0.5 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 9 | 0.5 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 9 | 0.5 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 18 | 0.5 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 18 | 0.5 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 1 | 0.5 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 17 | 0.5 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 20 | 0.5 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 2 | 0.5 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 8 | 0.5 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 8 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 9 | 0.5 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 9 | 0.5 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 18 | 0.5 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 18 | 0.5 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 1 | 0.5 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 3 | 0.5 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 7 | 0.5 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 19 | 0.5 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 8 | 0.5 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 8 | 0.5 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 17 | 0.5 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 17 | 0.5 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 18 | 0.5 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 18 | 0.5 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 15 | 0.49 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 12 | 0.49 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 13 | 0.49 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 19 | 0.49 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 16 | 0.49 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 3 | 0.49 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 5 | 0.49 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 5 | 0.49 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 8 | 0.49 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 12 | 0.49 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 1 | 0.49 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 1 | 0.49 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 17 | 0.49 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 17 | 0.49 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 8 | 0.49 |
| (2,1158) | 1:44:C:LEU:H | 1:44:C:LEU:HG | 8 | 0.49 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 3 | 0.49 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 12 | 0.49 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 16 | 0.49 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 17 | 0.49 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 4 | 0.49 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 18 | 0.49 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 18 | 0.49 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 8 | 0.49 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 3 | 0.49 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 7 | 0.49 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 12 | 0.49 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 16 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 19 | 0.49 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 12 | 0.49 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 1 | 0.49 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 1 | 0.49 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 8 | 0.49 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 16 | 0.49 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 16 | 0.49 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 12 | 0.49 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 1 | 0.49 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 1 | 0.49 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 8 | 0.49 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 16 | 0.48 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 12 | 0.48 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 16 | 0.48 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 12 | 0.48 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 6 | 0.48 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 9 | 0.48 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 12 | 0.48 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 1 | 0.48 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 6 | 0.48 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 6 | 0.48 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 6 | 0.48 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 19 | 0.48 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 5 | 0.48 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 5 | 0.48 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 18 | 0.48 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 18 | 0.48 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 16 | 0.48 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 9 | 0.48 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 5 | 0.48 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 5 | 0.48 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 17 | 0.48 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 17 | 0.48 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 3 | 0.48 |
| (2,948) | 1:19:C:GLU:H | 1:18:C:ILE:HA | 16 | 0.48 |
| (2,744) | 1:44:B:LEU:H | 1:44:B:LEU:HG | 8 | 0.48 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 16 | 0.48 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 9 | 0.48 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 1 | 0.48 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 5 | 0.48 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 5 | 0.48 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 17 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 17 | 0.48 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 3 | 0.48 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 5 | 0.48 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 5 | 0.48 |
| (2,120) | 1:19:A:GLU:H | 1:18:A:ILE:HA | 16 | 0.48 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 13 | 0.47 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 13 | 0.47 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 16 | 0.47 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 19 | 0.47 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 15 | 0.47 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 18 | 0.47 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 18 | 0.47 |
| (2,1776) | 1:19:E:GLU:H | 1:18:E:ILE:HA | 16 | 0.47 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 13 | 0.47 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 9 | 0.47 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 13 | 0.47 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 1 | 0.47 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 6 | 0.47 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 6 | 0.47 |
| (2,1362) | 1:19:D:GLU:H | 1:18:D:ILE:HA | 16 | 0.47 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 6 | 0.47 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 15 | 0.47 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 3 | 0.47 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 19 | 0.47 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 6 | 0.47 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 18 | 0.47 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 18 | 0.47 |
| (2,534) | 1:19:B:GLU:H | 1:18:B:ILE:HA | 16 | 0.47 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 6 | 0.47 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 9 | 0.47 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 13 | 0.47 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 15 | 0.47 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 4 | 0.47 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 18 | 0.47 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 18 | 0.47 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 3 | 0.47 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 5 | 0.46 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 7 | 0.46 |
| (2,1874) | 1:34:E:ASN:H | 1:31:E:LEU:HA | 13 | 0.46 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 13 | 0.46 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 15 | 0.46 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 3 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 13 | 0.46 |
| (2,1046) | 1:34:C:ASN:H | 1:31:C:LEU:HA | 19 | 0.46 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 13 | 0.46 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 4 | 0.46 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 6 | 0.46 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 6 | 0.46 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 2 | 0.46 |
| (2,632) | 1:34:B:ASN:H | 1:31:B:LEU:HA | 13 | 0.46 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 13 | 0.46 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 15 | 0.46 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 1 | 0.46 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 4 | 0.46 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 6 | 0.46 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 6 | 0.46 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 19 | 0.46 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 12 | 0.46 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 1 | 0.46 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 9 | 0.46 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 6 | 0.46 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 6 | 0.46 |
| (2,2106) | 1:33:A:ILE:CG2 | 1:37:E:LEU:CA | 10 | 0.45 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 5 | 0.45 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 8 | 0.45 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 4 | 0.45 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 3 | 0.45 |
| (2,1460) | 1:34:D:ASN:H | 1:31:D:LEU:HA | 19 | 0.45 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 4 | 0.45 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 20 | 0.45 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 5 | 0.45 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 1 | 0.45 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 20 | 0.45 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 5 | 0.45 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 8 | 0.45 |
| (2,218) | 1:34:A:ASN:H | 1:31:A:LEU:HA | 13 | 0.45 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 8 | 0.45 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 7 | 0.44 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 7 | 0.44 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 16 | 0.44 |
| (2,2106) | 1:40:A:ILE:CG2 | 1:44:E:LEU:CA | 6 | 0.44 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 3 | 0.44 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 2 | 0.44 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 5 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 8 | 0.44 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 17 | 0.44 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 4 | 0.44 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 4 | 0.44 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 8 | 0.44 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 16 | 0.44 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 20 | 0.44 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 5 | 0.44 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 4 | 0.44 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 4 | 0.44 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 16 | 0.44 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 14 | 0.43 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 17 | 0.43 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 6 | 0.43 |
| (2,2109) | 1:33:D:ILE:CG2 | 1:37:C:LEU:CA | 10 | 0.43 |
| (2,2108) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CA | 10 | 0.43 |
| (2,2107) | 1:33:B:ILE:CG2 | 1:37:A:LEU:CA | 10 | 0.43 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 2 | 0.43 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 17 | 0.43 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 20 | 0.43 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 12 | 0.43 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 9 | 0.43 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 4 | 0.43 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 4 | 0.43 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 15 | 0.43 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 14 | 0.43 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 3 | 0.43 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 15 | 0.43 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB2 | 19 | 0.43 |
| (2,1240) | 1:52:C:LEU:H | 1:52:C:LEU:HB3 | 19 | 0.43 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 4 | 0.43 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 4 | 0.43 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB2 | 19 | 0.43 |
| (2,826) | 1:52:B:LEU:H | 1:52:B:LEU:HB3 | 19 | 0.43 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 4 | 0.43 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 4 | 0.43 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG2 | 20 | 0.43 |
| (2,594) | 1:29:B:GLN:H | 1:29:B:GLN:HG3 | 20 | 0.43 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 18 | 0.43 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 15 | 0.43 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 20 | 0.43 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 18 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 15 | 0.43 |
| (2,2110) | 1:33:E:ILE:CG2 | 1:37:D:LEU:CA | 10 | 0.42 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 6 | 0.42 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB2 | 19 | 0.42 |
| (2,2068) | 1:52:E:LEU:H | 1:52:E:LEU:HB3 | 19 | 0.42 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 18 | 0.42 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 2 | 0.42 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG2 | 20 | 0.42 |
| (2,1422) | 1:29:D:GLN:H | 1:29:D:GLN:HG3 | 20 | 0.42 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 2 | 0.42 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 15 | 0.42 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 2 | 0.42 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 3 | 0.42 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB2 | 19 | 0.42 |
| (2,412) | 1:52:A:LEU:H | 1:52:A:LEU:HB3 | 19 | 0.42 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 2 | 0.42 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG2 | 20 | 0.42 |
| (2,180) | 1:29:A:GLN:H | 1:29:A:GLN:HG3 | 20 | 0.42 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 3 | 0.42 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 1 | 0.41 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 2 | 0.41 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG2 | 20 | 0.41 |
| (2,1836) | 1:29:E:GLN:H | 1:29:E:GLN:HG3 | 20 | 0.41 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB2 | 19 | 0.41 |
| (2,1654) | 1:52:D:LEU:H | 1:52:D:LEU:HB3 | 19 | 0.41 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 12 | 0.41 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 17 | 0.41 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 12 | 0.41 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 9 | 0.41 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG2 | 20 | 0.41 |
| (2,1008) | 1:29:C:GLN:H | 1:29:C:GLN:HG3 | 20 | 0.41 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 18 | 0.41 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 9 | 0.41 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 12 | 0.4 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 18 | 0.4 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 20 | 0.4 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 14 | 0.4 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 12 | 0.4 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 12 | 0.4 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 17 | 0.4 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 12 | 0.4 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 14 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 12 | 0.39 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 14 | 0.39 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 1 | 0.39 |
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 9 | 0.39 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 20 | 0.39 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 7 | 0.39 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 9 | 0.39 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 17 | 0.39 |
| (2,526) | 1:18:B:ILE:H | 1:17:B:THR:HA | 11 | 0.39 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 8 | 0.39 |
| (2,1859) | 1:32:E:PHE:H | 1:31:E:LEU:HB2 | 18 | 0.38 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 3 | 0.38 |
| (2,1768) | 1:18:E:ILE:H | 1:17:E:THR:HA | 11 | 0.38 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 7 | 0.38 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 8 | 0.38 |
| (2,1354) | 1:18:D:ILE:H | 1:17:D:THR:HA | 11 | 0.38 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 8 | 0.38 |
| (2,940) | 1:18:C:ILE:H | 1:17:C:THR:HA | 11 | 0.38 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 20 | 0.38 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 2 | 0.38 |
| (2,112) | 1:18:A:ILE:H | 1:17:A:THR:HA | 11 | 0.38 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 6 | 0.37 |
| (2,1817) | 1:28:E:LEU:H | 1:25:E:ARG:HA | 10 | 0.37 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 8 | 0.37 |
| (2,1445) | 1:32:D:PHE:H | 1:31:D:LEU:HB2 | 18 | 0.37 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 12 | 0.37 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 20 | 0.37 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 20 | 0.37 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 20 | 0.37 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 7 | 0.37 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 1 | 0.37 |
| (2,1031) | 1:32:C:PHE:H | 1:31:C:LEU:HB2 | 18 | 0.37 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 1 | 0.37 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 12 | 0.37 |
| (2,617) | 1:32:B:PHE:H | 1:31:B:LEU:HB2 | 18 | 0.37 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 6 | 0.37 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 14 | 0.37 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 8 | 0.37 |
| (2,203) | 1:32:A:PHE:H | 1:31:A:LEU:HB2 | 18 | 0.37 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 3 | 0.37 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 1 | 0.37 |
| (2,2110) | 1:40:E:ILE:CG2 | 1:44:D:LEU:CA | 6 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 14 | 0.36 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 20 | 0.36 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 20 | 0.36 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 20 | 0.36 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 6 | 0.36 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 7 | 0.36 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 6 | 0.36 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 3 | 0.36 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 11 | 0.36 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 17 | 0.35 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 7 | 0.35 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 6 | 0.35 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 20 | 0.35 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 13 | 0.35 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 13 | 0.35 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 14 | 0.35 |
| (2,1403) | 1:28:D:LEU:H | 1:25:D:ARG:HA | 10 | 0.35 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 2 | 0.35 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 3 | 0.35 |
| (2,956) | 1:20:C:MET:H | 1:19:C:GLU:HA | 20 | 0.35 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 20 | 0.35 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 20 | 0.35 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 20 | 0.35 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 6 | 0.35 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 7 | 0.35 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 11 | 0.35 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 13 | 0.35 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 13 | 0.35 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 6 | 0.35 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 9 | 0.35 |
| (2,161) | 1:28:A:LEU:H | 1:25:A:ARG:HA | 10 | 0.35 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 5 | 0.34 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 19 | 0.34 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 19 | 0.34 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 18 | 0.34 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 11 | 0.34 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG12 | 16 | 0.34 |
| (2,1783) | 1:20:E:MET:H | 1:18:E:ILE:HG13 | 16 | 0.34 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 5 | 0.34 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 5 | 0.34 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 5 | 0.34 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 12 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 5 | 0.34 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 1 | 0.34 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 13 | 0.34 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 13 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 5 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 5 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 5 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 20 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 20 | 0.34 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 20 | 0.34 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 10 | 0.34 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 10 | 0.34 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 10 | 0.34 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 6 | 0.34 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 19 | 0.34 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 12 | 0.34 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 13 | 0.34 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 13 | 0.34 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 5 | 0.34 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 5 | 0.34 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 5 | 0.34 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 1 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 5 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 5 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 5 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 20 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 20 | 0.34 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 20 | 0.34 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 6 | 0.34 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 7 | 0.34 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 5 | 0.34 |
| (2,183) | 1:30:A:ASN:H | 1:26:A:GLN:HA | 18 | 0.34 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 20 | 0.34 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 13 | 0.34 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 13 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 5 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 5 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 5 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 20 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 20 | 0.34 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 20 | 0.34 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 9 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 8 | 0.33 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 6 | 0.33 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 7 | 0.33 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 9 | 0.33 |
| (2,1811) | 1:27:E:ASN:H | 1:24:E:ALA:HA | 14 | 0.33 |
| (2,1784) | 1:20:E:MET:H | 1:19:E:GLU:HA | 20 | 0.33 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 3 | 0.33 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 11 | 0.33 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 11 | 0.33 |
| (2,1370) | 1:20:D:MET:H | 1:19:D:GLU:HA | 20 | 0.33 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG12 | 16 | 0.33 |
| (2,1369) | 1:20:D:MET:H | 1:18:D:ILE:HG13 | 16 | 0.33 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 17 | 0.33 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 9 | 0.33 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 15 | 0.33 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 18 | 0.33 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 11 | 0.33 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 16 | 0.33 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 16 | 0.33 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 8 | 0.33 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 7 | 0.33 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 14 | 0.33 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 18 | 0.33 |
| (2,542) | 1:20:B:MET:H | 1:19:B:GLU:HA | 3 | 0.33 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 16 | 0.33 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 16 | 0.33 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 11 | 0.33 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 14 | 0.33 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 15 | 0.33 |
| (2,128) | 1:20:A:MET:H | 1:19:A:GLU:HA | 20 | 0.33 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 16 | 0.33 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 16 | 0.33 |
| (2,2108) | 1:40:C:ILE:CG2 | 1:44:B:LEU:CA | 1 | 0.32 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 4 | 0.32 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 8 | 0.32 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 15 | 0.32 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 14 | 0.32 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 4 | 0.32 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 8 | 0.32 |
| (2,1425) | 1:30:D:ASN:H | 1:26:D:GLN:HA | 18 | 0.32 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 14 | 0.32 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 8 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 7 | 0.32 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 14 | 0.32 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 14 | 0.32 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 8 | 0.32 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 12 | 0.32 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 9 | 0.32 |
| (2,575) | 1:28:B:LEU:H | 1:25:B:ARG:HA | 10 | 0.32 |
| (2,542) | 1:20:B:MET:H | 1:19:B:GLU:HA | 20 | 0.32 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 14 | 0.32 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 8 | 0.32 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 19 | 0.32 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 8 | 0.32 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 7 | 0.32 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 16 | 0.32 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 14 | 0.32 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 15 | 0.31 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 14 | 0.31 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 9 | 0.31 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 11 | 0.31 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 12 | 0.31 |
| (2,1851) | 1:31:E:LEU:H | 1:27:E:ASN:HA | 14 | 0.31 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 3 | 0.31 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 6 | 0.31 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 8 | 0.31 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 7 | 0.31 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 9 | 0.31 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 9 | 0.31 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 15 | 0.31 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 3 | 0.31 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 8 | 0.31 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 7 | 0.31 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 9 | 0.31 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 3 | 0.31 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 9 | 0.31 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 15 | 0.31 |
| (2,597) | 1:30:B:ASN:H | 1:26:B:GLN:HA | 5 | 0.31 |
| (2,569) | 1:27:B:ASN:H | 1:24:B:ALA:HA | 14 | 0.31 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 13 | 0.31 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 9 | 0.31 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 12 | 0.31 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 5 | 0.3 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 9 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1397) | 1:27:D:ASN:H | 1:24:D:ALA:HA | 14 | 0.3 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 11 | 0.3 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 6 | 0.3 |
| (2,1011) | 1:30:C:ASN:H | 1:26:C:GLN:HA | 5 | 0.3 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 11 | 0.3 |
| (2,609) | 1:31:B:LEU:H | 1:27:B:ASN:HA | 14 | 0.3 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 6 | 0.3 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 15 | 0.3 |
| (2,270) | 1:39:A:LEU:H | 1:36:A:CYS:HA | 19 | 0.3 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 3 | 0.3 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 13 | 0.29 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 13 | 0.29 |
| (2,1839) | 1:30:E:ASN:H | 1:26:E:GLN:HA | 5 | 0.29 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 2 | 0.29 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 16 | 0.29 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 3 | 0.29 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 4 | 0.29 |
| (2,1447) | 1:32:D:PHE:H | 1:29:D:GLN:HA | 18 | 0.29 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 9 | 0.29 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 2 | 0.29 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 16 | 0.29 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 20 | 0.29 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 6 | 0.29 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 19 | 0.29 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 9 | 0.29 |
| (2,983) | 1:27:C:ASN:H | 1:24:C:ALA:HA | 14 | 0.29 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 2 | 0.29 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 2 | 0.29 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 16 | 0.29 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 19 | 0.29 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 13 | 0.29 |
| (2,152) | 1:26:A:GLN:H | 1:24:A:ALA:H | 2 | 0.29 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 2 | 0.29 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 16 | 0.29 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 20 | 0.29 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 4 | 0.28 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 18 | 0.28 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 17 | 0.28 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 11 | 0.28 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 7 | 0.28 |
| (2,1808) | 1:26:E:GLN:H | 1:24:E:ALA:H | 2 | 0.28 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 20 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 10 | 0.28 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 10 | 0.28 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 10 | 0.28 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 15 | 0.28 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 3 | 0.28 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 3 | 0.28 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 19 | 0.28 |
| (2,1437) | 1:31:D:LEU:H | 1:27:D:ASN:HA | 14 | 0.28 |
| (2,1394) | 1:26:D:GLN:H | 1:24:D:ALA:H | 2 | 0.28 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 4 | 0.28 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 16 | 0.28 |
| (2,1033) | 1:32:C:PHE:H | 1:29:C:GLN:HA | 18 | 0.28 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 16 | 0.28 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 16 | 0.28 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD11 | 20 | 0.28 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD12 | 20 | 0.28 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD13 | 20 | 0.28 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 3 | 0.28 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 19 | 0.28 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 9 | 0.28 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 13 | 0.28 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 3 | 0.28 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 7 | 0.28 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 9 | 0.28 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 3 | 0.27 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 3 | 0.27 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 14 | 0.27 |
| (2,1861) | 1:32:E:PHE:H | 1:29:E:GLN:HA | 18 | 0.27 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 6 | 0.27 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 18 | 0.27 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 5 | 0.27 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 14 | 0.27 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 18 | 0.27 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 6 | 0.27 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 13 | 0.27 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 17 | 0.27 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 5 | 0.27 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 14 | 0.27 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 13 | 0.27 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 20 | 0.27 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 15 | 0.27 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 14 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,619) | 1:32:B:PHE:H | 1:29:B:GLN:HA | 18 | 0.27 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 3 | 0.27 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 4 | 0.27 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 16 | 0.27 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 3 | 0.27 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 11 | 0.27 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 14 | 0.27 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 17 | 0.27 |
| (2,205) | 1:32:A:PHE:H | 1:29:A:GLN:HA | 18 | 0.27 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 6 | 0.27 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 3 | 0.26 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 3 | 0.26 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 6 | 0.26 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 11 | 0.26 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 17 | 0.26 |
| (2,1572) | 1:44:D:LEU:H | 1:44:D:LEU:HG | 18 | 0.26 |
| (2,1512) | 1:39:D:LEU:H | 1:36:D:CYS:HA | 11 | 0.26 |
| (2,1512) | 1:39:D:LEU:H | 1:36:D:CYS:HA | 19 | 0.26 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 3 | 0.26 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 6 | 0.26 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 11 | 0.26 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 17 | 0.26 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 20 | 0.26 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 13 | 0.26 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 3 | 0.26 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 15 | 0.26 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 19 | 0.26 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 2 | 0.26 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 3 | 0.26 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 11 | 0.26 |
| (2,980) | 1:26:C:GLN:H | 1:24:C:ALA:H | 2 | 0.26 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD11 | 10 | 0.26 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD12 | 10 | 0.26 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD13 | 10 | 0.26 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 11 | 0.26 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 19 | 0.26 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 5 | 0.26 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 3 | 0.26 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 11 | 0.26 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 17 | 0.26 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 20 | 0.26 |
| (2,566) | 1:26:B:GLN:H | 1:24:B:ALA:H | 2 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 18 | 0.26 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 11 | 0.26 |
| (2,330) | 1:44:A:LEU:H | 1:44:A:LEU:HG | 16 | 0.26 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 20 | 0.26 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 18 | 0.26 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 19 | 0.26 |
| (2,155) | 1:27:A:ASN:H | 1:24:A:ALA:HA | 14 | 0.26 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 13 | 0.26 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 10 | 0.25 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 10 | 0.25 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 10 | 0.25 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 7 | 0.25 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 9 | 0.25 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 16 | 0.25 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 18 | 0.25 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 6 | 0.25 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 20 | 0.25 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 18 | 0.25 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 16 | 0.25 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 19 | 0.25 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 4 | 0.25 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 13 | 0.25 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 18 | 0.25 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 13 | 0.25 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 1 | 0.25 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 4 | 0.25 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 18 | 0.25 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 1 | 0.25 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 20 | 0.25 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 6 | 0.25 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 17 | 0.25 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 20 | 0.25 |
| (2,1023) | 1:31:C:LEU:H | 1:27:C:ASN:HA | 14 | 0.25 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 4 | 0.25 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 18 | 0.25 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 4 | 0.25 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 4 | 0.25 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 5 | 0.25 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 4 | 0.25 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 13 | 0.25 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 17 | 0.25 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 1 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 6 | 0.25 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 4 | 0.25 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 18 | 0.25 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 19 | 0.24 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 1 | 0.24 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 20 | 0.24 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 8 | 0.24 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 9 | 0.24 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 7 | 0.24 |
| (2,1829) | 1:29:E:GLN:H | 1:28:E:LEU:HG | 5 | 0.24 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 13 | 0.24 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 19 | 0.24 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 5 | 0.24 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 16 | 0.24 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 19 | 0.24 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 5 | 0.24 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 5 | 0.24 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 17 | 0.24 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 8 | 0.24 |
| (2,1467) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HB3 | 19 | 0.24 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 2 | 0.24 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 7 | 0.24 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 16 | 0.24 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 13 | 0.24 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 19 | 0.24 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 1 | 0.24 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 9 | 0.24 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 5 | 0.24 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 5 | 0.24 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 15 | 0.24 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 15 | 0.24 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 15 | 0.24 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 13 | 0.24 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 13 | 0.24 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 6 | 0.24 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 9 | 0.24 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 1 | 0.24 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 2 | 0.24 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 6 | 0.24 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 9 | 0.24 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 16 | 0.24 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 13 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 8 | 0.24 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 9 | 0.24 |
| (2,225) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HB3 | 19 | 0.24 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 7 | 0.24 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 13 | 0.24 |
| (2,1986) | 1:44:E:LEU:H | 1:44:E:LEU:HG | 16 | 0.23 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 18 | 0.23 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 1 | 0.23 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 2 | 0.23 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 5 | 0.23 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 10 | 0.23 |
| (2,1881) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HB3 | 19 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 15 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 15 | 0.23 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 15 | 0.23 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 17 | 0.23 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 1 | 0.23 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 2 | 0.23 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 5 | 0.23 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 9 | 0.23 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 5 | 0.23 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 15 | 0.23 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 15 | 0.23 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 15 | 0.23 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 17 | 0.23 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 10 | 0.23 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 11 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 2 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 4 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 5 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 8 | 0.23 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 10 | 0.23 |
| (2,1053) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HB3 | 19 | 0.23 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 17 | 0.23 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 19 | 0.23 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 18 | 0.23 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 19 | 0.23 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 5 | 0.23 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 8 | 0.23 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 10 | 0.23 |
| (2,639) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HB3 | 19 | 0.23 |
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 5 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,587) | 1:29:B:GLN:H | 1:28:B:LEU:HG | 19 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 15 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 15 | 0.23 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 15 | 0.23 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 17 | 0.23 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 19 | 0.23 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 13 | 0.23 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 2 | 0.23 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 4 | 0.23 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 5 | 0.23 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 10 | 0.23 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 5 | 0.23 |
| (2,195) | 1:31:A:LEU:H | 1:27:A:ASN:HA | 14 | 0.23 |
| (2,173) | 1:29:A:GLN:H | 1:28:A:LEU:HG | 5 | 0.23 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 15 | 0.23 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 15 | 0.23 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 15 | 0.23 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 17 | 0.23 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 11 | 0.22 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 13 | 0.22 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 5 | 0.22 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 12 | 0.22 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 4 | 0.22 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 18 | 0.22 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 11 | 0.22 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 14 | 0.22 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 2 | 0.22 |
| (2,1852) | 1:31:E:LEU:H | 1:30:E:ASN:HD21 | 5 | 0.22 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 2 | 0.22 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 2 | 0.22 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 2 | 0.22 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 9 | 0.22 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 12 | 0.22 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 4 | 0.22 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 10 | 0.22 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 18 | 0.22 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 1 | 0.22 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 11 | 0.22 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 14 | 0.22 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 17 | 0.22 |
| (2,1438) | 1:31:D:LEU:H | 1:30:D:ASN:HD21 | 5 | 0.22 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 13 | 0.22 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 18 | 0.22 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 9 | 0.22 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 12 | 0.22 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 18 | 0.22 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 11 | 0.22 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 18 | 0.22 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD11 | 2 | 0.22 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD12 | 2 | 0.22 |
| (2,775) | 1:47:B:ILE:H | 1:47:B:ILE:HD13 | 2 | 0.22 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 9 | 0.22 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 13 | 0.22 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 1 | 0.22 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 14 | 0.22 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 4 | 0.22 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 3 | 0.22 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 11 | 0.22 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 14 | 0.22 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 18 | 0.22 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 13 | 0.22 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 6 | 0.22 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 1 | 0.22 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 9 | 0.22 |
| (2,270) | 1:39:A:LEU:H | 1:36:A:CYS:HA | 5 | 0.22 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 18 | 0.22 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 6 | 0.22 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 14 | 0.22 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 17 | 0.22 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 7 | 0.21 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 5 | 0.21 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 18 | 0.21 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 10 | 0.21 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 13 | 0.21 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 2 | 0.21 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 3 | 0.21 |
| (2,1881) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HB3 | 14 | 0.21 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 6 | 0.21 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 17 | 0.21 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 20 | 0.21 |
| (2,1861) | 1:32:E:PHE:H | 1:29:E:GLN:HA | 2 | 0.21 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 6 | 0.21 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 20 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD1 | 20 | 0.21 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD2 | 20 | 0.21 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 13 | 0.21 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 3 | 0.21 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 20 | 0.21 |
| (2,1467) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HB3 | 14 | 0.21 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 6 | 0.21 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 20 | 0.21 |
| (2,1447) | 1:32:D:PHE:H | 1:29:D:GLN:HA | 2 | 0.21 |
| (2,1415) | 1:29:D:GLN:H | 1:28:D:LEU:HG | 19 | 0.21 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 13 | 0.21 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 2 | 0.21 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 6 | 0.21 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 14 | 0.21 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 17 | 0.21 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 20 | 0.21 |
| (2,1033) | 1:32:C:PHE:H | 1:29:C:GLN:HA | 2 | 0.21 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 2 | 0.21 |
| (2,1024) | 1:31:C:LEU:H | 1:30:C:ASN:HD21 | 7 | 0.21 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 4 | 0.21 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 16 | 0.21 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 17 | 0.21 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 12 | 0.21 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 18 | 0.21 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 2 | 0.21 |
| (2,639) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HB3 | 14 | 0.21 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 1 | 0.21 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 6 | 0.21 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 17 | 0.21 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 20 | 0.21 |
| (2,619) | 1:32:B:PHE:H | 1:29:B:GLN:HA | 2 | 0.21 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 2 | 0.21 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 9 | 0.21 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 18 | 0.21 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 2 | 0.21 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 3 | 0.21 |
| (2,225) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HB3 | 14 | 0.21 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 3 | 0.21 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 11 | 0.21 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 20 | 0.21 |
| (2,2109) | 1:40:D:ILE:CG2 | 1:44:C:LEU:CA | 7 | 0.2 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 13 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 2 | 0.2 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 2 | 0.2 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 2 | 0.2 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 19 | 0.2 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 19 | 0.2 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 5 | 0.2 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 18 | 0.2 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 1 | 0.2 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 3 | 0.2 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 13 | 0.2 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 9 | 0.2 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 16 | 0.2 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 8 | 0.2 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 2 | 0.2 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 3 | 0.2 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 13 | 0.2 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 1 | 0.2 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 4 | 0.2 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 13 | 0.2 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 6 | 0.2 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 16 | 0.2 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 2 | 0.2 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 8 | 0.2 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 2 | 0.2 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 3 | 0.2 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 20 | 0.2 |
| (2,1053) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HB3 | 14 | 0.2 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 3 | 0.2 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 13 | 0.2 |
| (2,1001) | 1:29:C:GLN:H | 1:28:C:LEU:HG | 19 | 0.2 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 19 | 0.2 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 13 | 0.2 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 13 | 0.2 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 8 | 0.2 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 13 | 0.2 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 20 | 0.2 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 3 | 0.2 |
| (2,610) | 1:31:B:LEU:H | 1:30:B:ASN:HD21 | 7 | 0.2 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 20 | 0.2 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 7 | 0.2 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 14 | 0.2 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 13 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 2 | 0.2 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 20 | 0.2 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 1 | 0.2 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 13 | 0.2 |
| (2,196) | 1:31:A:LEU:H | 1:30:A:ASN:HD21 | 2 | 0.2 |
| (2,113) | 1:18:A:ILE:H | 1:17:A:THR:H | 11 | 0.2 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 4 | 0.2 |
| (2,2107) | 1:40:B:ILE:CG2 | 1:44:A:LEU:CA | 7 | 0.19 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 3 | 0.19 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 4 | 0.19 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 11 | 0.19 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 12 | 0.19 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 6 | 0.19 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 2 | 0.19 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 3 | 0.19 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 4 | 0.19 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 8 | 0.19 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 15 | 0.19 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 20 | 0.19 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 9 | 0.19 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 13 | 0.19 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 16 | 0.19 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 19 | 0.19 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 1 | 0.19 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 3 | 0.19 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 4 | 0.19 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 8 | 0.19 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 14 | 0.19 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 16 | 0.19 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 7 | 0.19 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 7 | 0.19 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 10 | 0.19 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 3 | 0.19 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 5 | 0.19 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 15 | 0.19 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 9 | 0.19 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 16 | 0.19 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 19 | 0.19 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 3 | 0.19 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 8 | 0.19 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 16 | 0.19 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 12 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|----------------|----------|---------------|
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 9 | 0.19 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 20 | 0.19 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 13 | 0.19 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 19 | 0.19 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 9 | 0.19 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 9 | 0.19 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 14 | 0.19 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 15 | 0.19 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 1 | 0.19 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 9 | 0.19 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 16 | 0.19 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 3 | 0.19 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 20 | 0.19 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 7 | 0.19 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 10 | 0.19 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 20 | 0.19 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 16 | 0.19 |
| (2,699) | 1:40:B:ILE:H | 1:37:B:LEU:HA | 7 | 0.19 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 18 | 0.19 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 2 | 0.19 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 8 | 0.19 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 15 | 0.19 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 9 | 0.19 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 13 | 0.19 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 15 | 0.19 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 16 | 0.19 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 19 | 0.19 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 1 | 0.19 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 3 | 0.19 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 4 | 0.19 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 8 | 0.19 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 20 | 0.19 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 16 | 0.19 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 3 | 0.19 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 12 | 0.19 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 5 | 0.19 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 10 | 0.19 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 19 | 0.19 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 2 | 0.19 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 15 | 0.19 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 16 | 0.19 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 9 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (2,205) | 1:32:A:PHE:H | 1:29:A:GLN:HA | 2 | 0.19 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 19 | 0.19 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 19 | 0.19 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 1 | 0.19 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 3 | 0.19 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 8 | 0.19 |
| (2,2144) | 1:33:C:ILE:CG2 | 1:37:B:LEU:CB | 7 | 0.18 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 20 | 0.18 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 20 | 0.18 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 20 | 0.18 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 10 | 0.18 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 5 | 0.18 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 5 | 0.18 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 2 | 0.18 |
| (2,1946) | 1:41:E:CYS:H | 1:38:E:ILE:HA | 13 | 0.18 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 2 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 7 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 9 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 11 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 16 | 0.18 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 20 | 0.18 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 8 | 0.18 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 7 | 0.18 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 16 | 0.18 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 12 | 0.18 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 15 | 0.18 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 7 | 0.18 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 13 | 0.18 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 16 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 3 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 7 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 9 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 11 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 17 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 18 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 19 | 0.18 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 20 | 0.18 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 4 | 0.18 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 11 | 0.18 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 12 | 0.18 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 20 | 0.18 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 20 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 20 | 0.18 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 13 | 0.18 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 2 | 0.18 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 4 | 0.18 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 8 | 0.18 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 9 | 0.18 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 11 | 0.18 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 8 | 0.18 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 7 | 0.18 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 16 | 0.18 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 4 | 0.18 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 5 | 0.18 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 12 | 0.18 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 15 | 0.18 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 7 | 0.18 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 12 | 0.18 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 12 | 0.18 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 12 | 0.18 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 9 | 0.18 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 17 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 3 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 4 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 5 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 6 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 7 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 8 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 9 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 11 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 14 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 15 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 16 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 17 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 18 | 0.18 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 19 | 0.18 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 4 | 0.18 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 7 | 0.18 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 11 | 0.18 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 2 | 0.18 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 10 | 0.18 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 14 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 1 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 3 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|----------------|----------|---------------|
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 4 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 5 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 6 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 7 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 8 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 19 | 0.18 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 20 | 0.18 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 7 | 0.18 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 16 | 0.18 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 4 | 0.18 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 12 | 0.18 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 15 | 0.18 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 7 | 0.18 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 17 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 3 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 4 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 5 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 6 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 7 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 9 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 14 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 15 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 16 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 17 | 0.18 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 18 | 0.18 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 1 | 0.18 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 4 | 0.18 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 8 | 0.18 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 17 | 0.18 |
| (2,750) | 1:45:B:ILE:H | 1:42:B:LEU:HA | 5 | 0.18 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 2 | 0.18 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 3 | 0.18 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 4 | 0.18 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 5 | 0.18 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 7 | 0.18 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 14 | 0.18 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 7 | 0.18 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 16 | 0.18 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 5 | 0.18 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 12 | 0.18 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 17 | 0.18 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 19 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|-----------------|----------|---------------|
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 2 | 0.18 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 11 | 0.18 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 18 | 0.18 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 9 | 0.18 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 16 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 3 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 4 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 6 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 7 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 9 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 10 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 11 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 14 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 17 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 18 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 19 | 0.18 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 20 | 0.18 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 4 | 0.18 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 11 | 0.18 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 16 | 0.18 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD11 | 20 | 0.18 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD12 | 20 | 0.18 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD13 | 20 | 0.18 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 5 | 0.18 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 3 | 0.18 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 5 | 0.18 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 19 | 0.18 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 12 | 0.18 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 15 | 0.18 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 16 | 0.18 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 7 | 0.18 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 9 | 0.18 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 16 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 3 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 4 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 6 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 7 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 8 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 9 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 10 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 11 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 14 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 15 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 16 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 17 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 18 | 0.18 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 20 | 0.18 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 5 | 0.17 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 8 | 0.17 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 14 | 0.17 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 18 | 0.17 |
| (2,2025) | 1:48:E:ILE:H | 1:45:E:ILE:HA | 12 | 0.17 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 19 | 0.17 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 19 | 0.17 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 19 | 0.17 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 15 | 0.17 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 15 | 0.17 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 9 | 0.17 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD1 | 20 | 0.17 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD2 | 20 | 0.17 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 8 | 0.17 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 6 | 0.17 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 12 | 0.17 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 13 | 0.17 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 5 | 0.17 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 9 | 0.17 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 14 | 0.17 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 12 | 0.17 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 4 | 0.17 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 5 | 0.17 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 8 | 0.17 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 18 | 0.17 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 15 | 0.17 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 16 | 0.17 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 19 | 0.17 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 5 | 0.17 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 11 | 0.17 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 18 | 0.17 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 20 | 0.17 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 9 | 0.17 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 10 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 1 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 2 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 4 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|----------------|----------|---------------|
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 5 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 6 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 8 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 10 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 13 | 0.17 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 15 | 0.17 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 3 | 0.17 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 5 | 0.17 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 8 | 0.17 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 10 | 0.17 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 11 | 0.17 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 2 | 0.17 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 7 | 0.17 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 12 | 0.17 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 16 | 0.17 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 19 | 0.17 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 7 | 0.17 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 12 | 0.17 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 2 | 0.17 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 8 | 0.17 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 10 | 0.17 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 3 | 0.17 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 12 | 0.17 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 15 | 0.17 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 17 | 0.17 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 20 | 0.17 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 11 | 0.17 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 17 | 0.17 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 18 | 0.17 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 10 | 0.17 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 1 | 0.17 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 2 | 0.17 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 10 | 0.17 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 13 | 0.17 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 20 | 0.17 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 3 | 0.17 |
| (2,1197) | 1:48:C:ILE:H | 1:45:C:ILE:HA | 12 | 0.17 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD1 | 20 | 0.17 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD2 | 20 | 0.17 |
| (2,1113) | 1:40:C:ILE:H | 1:37:C:LEU:HA | 17 | 0.17 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 16 | 0.17 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|----------------|----------|---------------|
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 18 | 0.17 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 3 | 0.17 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 5 | 0.17 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 8 | 0.17 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 12 | 0.17 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 5 | 0.17 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 8 | 0.17 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 10 | 0.17 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 18 | 0.17 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 4 | 0.17 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 12 | 0.17 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 15 | 0.17 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 5 | 0.17 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 11 | 0.17 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 18 | 0.17 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 20 | 0.17 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 1 | 0.17 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 8 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 1 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 2 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 8 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 10 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 11 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 13 | 0.17 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 19 | 0.17 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 3 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 5 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 11 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 12 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 14 | 0.17 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 18 | 0.17 |
| (2,783) | 1:48:B:ILE:H | 1:45:B:ILE:HA | 12 | 0.17 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 2 | 0.17 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 19 | 0.17 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 16 | 0.17 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 19 | 0.17 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 5 | 0.17 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 3 | 0.17 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 12 | 0.17 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 2 | 0.17 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 4 | 0.17 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|----------------|----------|---------------|
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 10 | 0.17 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 18 | 0.17 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 1 | 0.17 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 7 | 0.17 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 12 | 0.17 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 15 | 0.17 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 16 | 0.17 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 3 | 0.17 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 5 | 0.17 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 11 | 0.17 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 17 | 0.17 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 18 | 0.17 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 10 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 1 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 2 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 5 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 8 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 13 | 0.17 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 15 | 0.17 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 14 | 0.17 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 1 | 0.17 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 5 | 0.17 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 8 | 0.17 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 14 | 0.17 |
| (2,369) | 1:48:A:ILE:H | 1:45:A:ILE:HA | 12 | 0.17 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 10 | 0.17 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 20 | 0.17 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 13 | 0.17 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 2 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 4 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 7 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 8 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 9 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 11 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 12 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 14 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 15 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 16 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 18 | 0.17 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 20 | 0.17 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 2 | 0.17 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 7 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 8 | 0.17 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 18 | 0.17 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 7 | 0.17 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 12 | 0.17 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 4 | 0.17 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 5 | 0.17 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 8 | 0.17 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 10 | 0.17 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 4 | 0.17 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 12 | 0.17 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 14 | 0.17 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 15 | 0.17 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 16 | 0.17 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 13 | 0.17 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 11 | 0.17 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 17 | 0.17 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 18 | 0.17 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 17 | 0.17 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 1 | 0.17 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 2 | 0.17 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 5 | 0.17 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 13 | 0.17 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 19 | 0.17 |
| (2,2067) | 1:52:E:LEU:H | 1:52:E:LEU:HA | 7 | 0.16 |
| (2,2067) | 1:52:E:LEU:H | 1:52:E:LEU:HA | 19 | 0.16 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 1 | 0.16 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 3 | 0.16 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 9 | 0.16 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 17 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 1 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 2 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 3 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 6 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 8 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 10 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 11 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 13 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 14 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 15 | 0.16 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 20 | 0.16 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 6 | 0.16 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 6 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 6 | 0.16 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 16 | 0.16 |
| (2,1946) | 1:41:E:CYS:H | 1:38:E:ILE:HA | 20 | 0.16 |
| (2,1941) | 1:40:E:ILE:H | 1:37:E:LEU:HA | 14 | 0.16 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 16 | 0.16 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 1 | 0.16 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 14 | 0.16 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 15 | 0.16 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 17 | 0.16 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 2 | 0.16 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 7 | 0.16 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 10 | 0.16 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 14 | 0.16 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 3 | 0.16 |
| (2,1885) | 1:34:E:ASN:H | 1:34:E:ASN:HB3 | 19 | 0.16 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 13 | 0.16 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 16 | 0.16 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 2 | 0.16 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 10 | 0.16 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 19 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 1 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 3 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 4 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 5 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 8 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 9 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 11 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 12 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 14 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 17 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 18 | 0.16 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 20 | 0.16 |
| (2,1784) | 1:20:E:MET:H | 1:19:E:GLU:HA | 3 | 0.16 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 2 | 0.16 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 3 | 0.16 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 6 | 0.16 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 17 | 0.16 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 12 | 0.16 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 12 | 0.16 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 12 | 0.16 |
| (2,1771) | 1:18:E:ILE:H | 1:18:E:ILE:HB | 5 | 0.16 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 17 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 20 | 0.16 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 3 | 0.16 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 13 | 0.16 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 20 | 0.16 |
| (2,1663) | 1:3:E:LYS:H | 1:3:E:LYS:HB3 | 12 | 0.16 |
| (2,1653) | 1:52:D:LEU:H | 1:52:D:LEU:HA | 19 | 0.16 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 8 | 0.16 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 3 | 0.16 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 17 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 1 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 2 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 3 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 8 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 13 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 15 | 0.16 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 20 | 0.16 |
| (2,1611) | 1:48:D:ILE:H | 1:45:D:ILE:HA | 12 | 0.16 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 2 | 0.16 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 10 | 0.16 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 14 | 0.16 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 18 | 0.16 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 6 | 0.16 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 14 | 0.16 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 15 | 0.16 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 18 | 0.16 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 20 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 2 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 3 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 5 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 9 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 14 | 0.16 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 18 | 0.16 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 3 | 0.16 |
| (2,1471) | 1:34:D:ASN:H | 1:34:D:ASN:HB3 | 19 | 0.16 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 13 | 0.16 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 18 | 0.16 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 19 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 1 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 4 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 5 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 6 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 9 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 11 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 14 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 16 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 18 | 0.16 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 19 | 0.16 |
| (2,1399) | 1:27:D:ASN:H | 1:25:D:ARG:H | 13 | 0.16 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 2 | 0.16 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 3 | 0.16 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 5 | 0.16 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 6 | 0.16 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD11 | 7 | 0.16 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD12 | 7 | 0.16 |
| (2,1363) | 1:19:D:GLU:H | 1:18:D:ILE:HD13 | 7 | 0.16 |
| (2,1357) | 1:18:D:ILE:H | 1:18:D:ILE:HB | 5 | 0.16 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 20 | 0.16 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 6 | 0.16 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 16 | 0.16 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 20 | 0.16 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 3 | 0.16 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 8 | 0.16 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 13 | 0.16 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 20 | 0.16 |
| (2,1239) | 1:52:C:LEU:H | 1:52:C:LEU:HA | 19 | 0.16 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 3 | 0.16 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 5 | 0.16 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 9 | 0.16 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 14 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 1 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 2 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 3 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 4 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 10 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 13 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 14 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 15 | 0.16 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 20 | 0.16 |
| (2,1164) | 1:45:C:ILE:H | 1:42:C:LEU:HA | 8 | 0.16 |
| (2,1118) | 1:41:C:CYS:H | 1:38:C:ILE:HA | 20 | 0.16 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 18 | 0.16 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 11 | 0.16 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 12 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 15 | 0.16 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 4 | 0.16 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 7 | 0.16 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 18 | 0.16 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 3 | 0.16 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 13 | 0.16 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 2 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 3 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 8 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 9 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 11 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 14 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 16 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 17 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 18 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 19 | 0.16 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 20 | 0.16 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 19 | 0.16 |
| (2,956) | 1:20:C:MET:H | 1:19:C:GLU:HA | 3 | 0.16 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 2 | 0.16 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 3 | 0.16 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 6 | 0.16 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 17 | 0.16 |
| (2,943) | 1:18:C:ILE:H | 1:18:C:ILE:HB | 5 | 0.16 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 16 | 0.16 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 1 | 0.16 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 3 | 0.16 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 13 | 0.16 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 20 | 0.16 |
| (2,825) | 1:52:B:LEU:H | 1:52:B:LEU:HA | 19 | 0.16 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 5 | 0.16 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 3 | 0.16 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 9 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 2 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 3 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 4 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 8 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 10 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 13 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 14 | 0.16 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 20 | 0.16 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB2 | 11 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB3 | 11 | 0.16 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 4 | 0.16 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 10 | 0.16 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 14 | 0.16 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD1 | 20 | 0.16 |
| (2,701) | 1:39:B:LEU:H | 1:35:B:PHE:HD2 | 20 | 0.16 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 1 | 0.16 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 12 | 0.16 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 15 | 0.16 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 18 | 0.16 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 20 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 2 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 3 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 7 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 8 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 9 | 0.16 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 18 | 0.16 |
| (2,643) | 1:34:B:ASN:H | 1:34:B:ASN:HB3 | 19 | 0.16 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 16 | 0.16 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 7 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 3 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 4 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 5 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 8 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 9 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 11 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 14 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 18 | 0.16 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 20 | 0.16 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 6 | 0.16 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 12 | 0.16 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 12 | 0.16 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 12 | 0.16 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 20 | 0.16 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 17 | 0.16 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 20 | 0.16 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 6 | 0.16 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 3 | 0.16 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 13 | 0.16 |
| (2,421) | 1:3:B:LYS:H | 1:3:B:LYS:HB3 | 12 | 0.16 |
| (2,411) | 1:52:A:LEU:H | 1:52:A:LEU:HA | 7 | 0.16 |
| (2,411) | 1:52:A:LEU:H | 1:52:A:LEU:HA | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 8 | 0.16 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 16 | 0.16 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 17 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 2 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 3 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 4 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 6 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 8 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 10 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 13 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 15 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 17 | 0.16 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 20 | 0.16 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD11 | 10 | 0.16 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD12 | 10 | 0.16 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD13 | 10 | 0.16 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 18 | 0.16 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 18 | 0.16 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 1 | 0.16 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 5 | 0.16 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 9 | 0.16 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 10 | 0.16 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 9 | 0.16 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 13 | 0.16 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 2 | 0.16 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 7 | 0.16 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 18 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 1 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 3 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 5 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 11 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 17 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 18 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 19 | 0.16 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 20 | 0.16 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 2 | 0.16 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 3 | 0.16 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 5 | 0.16 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 6 | 0.16 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 10 | 0.16 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 12 | 0.16 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 12 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 12 | 0.16 |
| (2,115) | 1:18:A:ILE:H | 1:18:A:ILE:HB | 5 | 0.16 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 20 | 0.16 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 6 | 0.16 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 20 | 0.16 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 3 | 0.16 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 13 | 0.16 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 20 | 0.16 |
| (2,7) | 1:3:A:LYS:H | 1:3:A:LYS:HB3 | 12 | 0.16 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 1 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 5 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 8 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 14 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 15 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 18 | 0.15 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 6 | 0.15 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 15 | 0.15 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 16 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 4 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 7 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 9 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 12 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 16 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 17 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 18 | 0.15 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 19 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 15 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 15 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 15 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 17 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 17 | 0.15 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 17 | 0.15 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 20 | 0.15 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 13 | 0.15 |
| (2,1941) | 1:40:E:ILE:H | 1:37:E:LEU:HA | 6 | 0.15 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 15 | 0.15 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 10 | 0.15 |
| (2,1898) | 1:36:E:CYS:H | 1:35:E:PHE:HA | 19 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 1 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 3 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 15 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 17 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 18 | 0.15 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 19 | 0.15 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 9 | 0.15 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 11 | 0.15 |
| (2,1876) | 1:34:E:ASN:H | 1:33:E:ILE:HA | 7 | 0.15 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 2 | 0.15 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 6 | 0.15 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 13 | 0.15 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 19 | 0.15 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 8 | 0.15 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 10 | 0.15 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD11 | 7 | 0.15 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD12 | 7 | 0.15 |
| (2,1777) | 1:19:E:GLU:H | 1:18:E:ILE:HD13 | 7 | 0.15 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 1 | 0.15 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 11 | 0.15 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 4 | 0.15 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 5 | 0.15 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 4 | 0.15 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 20 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 3 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 4 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 6 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 8 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 9 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 10 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 13 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 17 | 0.15 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 18 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 1 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 4 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 6 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 8 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 9 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 10 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 16 | 0.15 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 17 | 0.15 |
| (2,1653) | 1:52:D:LEU:H | 1:52:D:LEU:HA | 7 | 0.15 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 5 | 0.15 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 17 | 0.15 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 6 | 0.15 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 14 | 0.15 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 16 | 0.15 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 18 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 4 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 6 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 7 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 9 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 11 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 12 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 14 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 16 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 17 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 18 | 0.15 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 19 | 0.15 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 6 | 0.15 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 6 | 0.15 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 6 | 0.15 |
| (2,1527) | 1:40:D:ILE:H | 1:37:D:LEU:HA | 7 | 0.15 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 15 | 0.15 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 1 | 0.15 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 10 | 0.15 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 13 | 0.15 |
| (2,1484) | 1:36:D:CYS:H | 1:35:D:PHE:HA | 17 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 4 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 6 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 10 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 13 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 15 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 19 | 0.15 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 20 | 0.15 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 14 | 0.15 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 9 | 0.15 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 11 | 0.15 |
| (2,1462) | 1:34:D:ASN:H | 1:33:D:ILE:HA | 7 | 0.15 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 2 | 0.15 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 13 | 0.15 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 19 | 0.15 |
| (2,1370) | 1:20:D:MET:H | 1:19:D:GLU:HA | 3 | 0.15 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 8 | 0.15 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 10 | 0.15 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 1 | 0.15 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|----------------|----------|---------------|
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 11 | 0.15 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 5 | 0.15 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 4 | 0.15 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 20 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 7 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 7 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 7 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 19 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 19 | 0.15 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 19 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 3 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 4 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 5 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 8 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 9 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 13 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 17 | 0.15 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 18 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 1 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 6 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 9 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 10 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 16 | 0.15 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 17 | 0.15 |
| (2,1249) | 1:3:D:LYS:H | 1:3:D:LYS:HB3 | 12 | 0.15 |
| (2,1239) | 1:52:C:LEU:H | 1:52:C:LEU:HA | 7 | 0.15 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 5 | 0.15 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 8 | 0.15 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 17 | 0.15 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 6 | 0.15 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 8 | 0.15 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 16 | 0.15 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 17 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 6 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 7 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 8 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 9 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 11 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 12 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 16 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 17 | 0.15 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 18 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 19 | 0.15 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 17 | 0.15 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 17 | 0.15 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 17 | 0.15 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 4 | 0.15 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 18 | 0.15 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 10 | 0.15 |
| (2,1070) | 1:36:C:CYS:H | 1:35:C:PHE:HA | 13 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 2 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 9 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 10 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 11 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 13 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 14 | 0.15 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 19 | 0.15 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 13 | 0.15 |
| (2,1057) | 1:34:C:ASN:H | 1:34:C:ASN:HB3 | 19 | 0.15 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 8 | 0.15 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 9 | 0.15 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 7 | 0.15 |
| (2,1048) | 1:34:C:ASN:H | 1:33:C:ILE:HA | 19 | 0.15 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 1 | 0.15 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 2 | 0.15 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 5 | 0.15 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 6 | 0.15 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 13 | 0.15 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 13 | 0.15 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 8 | 0.15 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 10 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 7 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 7 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 7 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD11 | 12 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD12 | 12 | 0.15 |
| (2,949) | 1:19:C:GLU:H | 1:18:C:ILE:HD13 | 12 | 0.15 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 1 | 0.15 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 3 | 0.15 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 11 | 0.15 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 5 | 0.15 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 9 | 0.15 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 1 | 0.15 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 4 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|----------------|----------|---------------|
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 8 | 0.15 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 14 | 0.15 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 16 | 0.15 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 20 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 1 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 3 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 4 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 5 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 6 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 7 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 8 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 9 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 13 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 16 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 17 | 0.15 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 20 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 4 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 5 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 6 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 8 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 9 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 10 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 11 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 16 | 0.15 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 17 | 0.15 |
| (2,835) | 1:3:C:LYS:H | 1:3:C:LYS:HB3 | 12 | 0.15 |
| (2,825) | 1:52:B:LEU:H | 1:52:B:LEU:HA | 7 | 0.15 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 17 | 0.15 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 18 | 0.15 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 6 | 0.15 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 10 | 0.15 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 15 | 0.15 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 16 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 1 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 6 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 7 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 9 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 11 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 12 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 15 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 16 | 0.15 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 17 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 19 | 0.15 |
| (2,664) | 1:37:B:LEU:H | 1:34:B:ASN:HA | 7 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 6 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 9 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 10 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 11 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 13 | 0.15 |
| (2,656) | 1:36:B:CYS:H | 1:35:B:PHE:HA | 17 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 1 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 6 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 10 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 11 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 14 | 0.15 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 19 | 0.15 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 9 | 0.15 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 11 | 0.15 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 13 | 0.15 |
| (2,634) | 1:34:B:ASN:H | 1:33:B:ILE:HA | 19 | 0.15 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 2 | 0.15 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 6 | 0.15 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 13 | 0.15 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 19 | 0.15 |
| (2,608) | 1:31:B:LEU:H | 1:28:B:LEU:HA | 2 | 0.15 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 13 | 0.15 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 1 | 0.15 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 2 | 0.15 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 8 | 0.15 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 10 | 0.15 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD11 | 7 | 0.15 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD12 | 7 | 0.15 |
| (2,535) | 1:19:B:GLU:H | 1:18:B:ILE:HD13 | 7 | 0.15 |
| (2,529) | 1:18:B:ILE:H | 1:18:B:ILE:HB | 5 | 0.15 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 1 | 0.15 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 11 | 0.15 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 5 | 0.15 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 4 | 0.15 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 12 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 1 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 3 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 4 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 5 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 7 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|----------------|----------|---------------|
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 8 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 9 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 10 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 13 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 16 | 0.15 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 20 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 1 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 4 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 6 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 8 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 9 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 10 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 16 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 17 | 0.15 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 20 | 0.15 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 1 | 0.15 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 5 | 0.15 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 10 | 0.15 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 15 | 0.15 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 17 | 0.15 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 6 | 0.15 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 9 | 0.15 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 10 | 0.15 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 15 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 1 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 7 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 9 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 11 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 12 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 16 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 18 | 0.15 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 19 | 0.15 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB2 | 15 | 0.15 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB3 | 15 | 0.15 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 20 | 0.15 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 13 | 0.15 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 17 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 1 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 3 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 13 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 14 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 15 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 16 | 0.15 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 19 | 0.15 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 13 | 0.15 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 14 | 0.15 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 17 | 0.15 |
| (2,229) | 1:34:A:ASN:H | 1:34:A:ASN:HB3 | 19 | 0.15 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 11 | 0.15 |
| (2,220) | 1:34:A:ASN:H | 1:33:A:ILE:HA | 19 | 0.15 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 2 | 0.15 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 6 | 0.15 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 8 | 0.15 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 9 | 0.15 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 13 | 0.15 |
| (2,128) | 1:20:A:MET:H | 1:19:A:GLU:HA | 3 | 0.15 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 1 | 0.15 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 4 | 0.15 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 8 | 0.15 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD11 | 7 | 0.15 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD12 | 7 | 0.15 |
| (2,121) | 1:19:A:GLU:H | 1:18:A:ILE:HD13 | 7 | 0.15 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 1 | 0.15 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 3 | 0.15 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 4 | 0.15 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 3 | 0.15 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 4 | 0.15 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 20 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 1 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 7 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 8 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 9 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 12 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 13 | 0.15 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 16 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 1 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 6 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 8 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 9 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 10 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 11 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 16 | 0.15 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 17 | 0.15 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 2 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 10 | 0.14 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 17 | 0.14 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 19 | 0.14 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 10 | 0.14 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 20 | 0.14 |
| (2,2030) | 1:49:E:VAL:H | 1:48:E:ILE:HA | 5 | 0.14 |
| (2,1946) | 1:41:E:CYS:H | 1:38:E:ILE:HA | 16 | 0.14 |
| (2,1941) | 1:40:E:ILE:H | 1:37:E:LEU:HA | 17 | 0.14 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 1 | 0.14 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 4 | 0.14 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 6 | 0.14 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 11 | 0.14 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 12 | 0.14 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 13 | 0.14 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 8 | 0.14 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 12 | 0.14 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 17 | 0.14 |
| (2,1850) | 1:31:E:LEU:H | 1:28:E:LEU:HA | 2 | 0.14 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 1 | 0.14 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 4 | 0.14 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 3 | 0.14 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 18 | 0.14 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 15 | 0.14 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 9 | 0.14 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 10 | 0.14 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 11 | 0.14 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 14 | 0.14 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 16 | 0.14 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 15 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 1 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 2 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 3 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 5 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 6 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 7 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 8 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 9 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 10 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 11 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 12 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 13 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 14 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 16 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 17 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 18 | 0.14 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 19 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 14 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 14 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 14 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 15 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 15 | 0.14 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 15 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 1 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 2 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 5 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 7 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 11 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 12 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 14 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 15 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 16 | 0.14 |
| (2,1687) | 1:7:E:LEU:H | 1:6:E:TYR:HA | 19 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 2 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 7 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 11 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 14 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 15 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 18 | 0.14 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 19 | 0.14 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 14 | 0.14 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 19 | 0.14 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 1 | 0.14 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 10 | 0.14 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 15 | 0.14 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 20 | 0.14 |
| (2,1616) | 1:49:D:VAL:H | 1:48:D:ILE:HA | 5 | 0.14 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 17 | 0.14 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 17 | 0.14 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 17 | 0.14 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 4 | 0.14 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD1 | 11 | 0.14 |
| (2,1529) | 1:39:D:LEU:H | 1:35:D:PHE:HD2 | 11 | 0.14 |
| (2,1492) | 1:37:D:LEU:H | 1:34:D:ASN:HA | 9 | 0.14 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 1 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 11 | 0.14 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 12 | 0.14 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 16 | 0.14 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 6 | 0.14 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 17 | 0.14 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 8 | 0.14 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 1 | 0.14 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 4 | 0.14 |
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 15 | 0.14 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 4 | 0.14 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 9 | 0.14 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 11 | 0.14 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 14 | 0.14 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 16 | 0.14 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 6 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 1 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 2 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 3 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 5 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 6 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 7 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 8 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 9 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 10 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 12 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 13 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 14 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 16 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 17 | 0.14 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 18 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 14 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 14 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 14 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 15 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 15 | 0.14 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 15 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 1 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 2 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 7 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 10 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 11 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 14 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 15 | 0.14 |
| (2,1273) | 1:7:D:LEU:H | 1:6:D:TYR:HA | 19 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 2 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 4 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 7 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 11 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 14 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 15 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 18 | 0.14 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 19 | 0.14 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 6 | 0.14 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 9 | 0.14 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 19 | 0.14 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 1 | 0.14 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 15 | 0.14 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 18 | 0.14 |
| (2,1202) | 1:49:C:VAL:H | 1:48:C:ILE:HA | 5 | 0.14 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 1 | 0.14 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 1 | 0.14 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 1 | 0.14 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 15 | 0.14 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 1 | 0.14 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 12 | 0.14 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 15 | 0.14 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 17 | 0.14 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 14 | 0.14 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 11 | 0.14 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 12 | 0.14 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 1 | 0.14 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 4 | 0.14 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 15 | 0.14 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 4 | 0.14 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 9 | 0.14 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 11 | 0.14 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 14 | 0.14 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 10 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 2 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 3 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 5 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 6 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 9 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 10 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 11 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 12 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 13 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 18 | 0.14 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 19 | 0.14 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 18 | 0.14 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 18 | 0.14 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 18 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 2 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 10 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 11 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 12 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 14 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 15 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 18 | 0.14 |
| (2,859) | 1:7:C:LEU:H | 1:6:C:TYR:HA | 19 | 0.14 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 2 | 0.14 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 7 | 0.14 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 14 | 0.14 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 15 | 0.14 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 18 | 0.14 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 15 | 0.14 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 19 | 0.14 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 20 | 0.14 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 5 | 0.14 |
| (2,788) | 1:49:B:VAL:H | 1:48:B:ILE:HA | 18 | 0.14 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 18 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 4 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 12 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 13 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 15 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 16 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 17 | 0.14 |
| (2,649) | 1:35:B:PHE:H | 1:34:B:ASN:HA | 20 | 0.14 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 14 | 0.14 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 8 | 0.14 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 12 | 0.14 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 4 | 0.14 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 3 | 0.14 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 15 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|----------------|----------|---------------|
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 4 | 0.14 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 9 | 0.14 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 14 | 0.14 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 16 | 0.14 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 6 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 1 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 2 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 3 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 5 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 7 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 8 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 9 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 10 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 11 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 13 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 14 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 16 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 18 | 0.14 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 19 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 14 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 14 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 14 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 15 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 15 | 0.14 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 15 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 2 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 11 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 12 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 14 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 15 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 17 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 18 | 0.14 |
| (2,445) | 1:7:B:LEU:H | 1:6:B:TYR:HA | 19 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 2 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 5 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 7 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 11 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 15 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 18 | 0.14 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 19 | 0.14 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 6 | 0.14 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 2 | 0.14 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 3 | 0.14 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 18 | 0.14 |
| (2,389) | 1:50:A:MET:H | 1:50:A:MET:HB3 | 20 | 0.14 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 5 | 0.14 |
| (2,374) | 1:49:A:VAL:H | 1:48:A:ILE:HA | 14 | 0.14 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD11 | 15 | 0.14 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD12 | 15 | 0.14 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD13 | 15 | 0.14 |
| (2,336) | 1:45:A:ILE:H | 1:42:A:LEU:HA | 8 | 0.14 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 11 | 0.14 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 16 | 0.14 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD1 | 20 | 0.14 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD2 | 20 | 0.14 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 6 | 0.14 |
| (2,242) | 1:36:A:CYS:H | 1:35:A:PHE:HA | 10 | 0.14 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 4 | 0.14 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 6 | 0.14 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 11 | 0.14 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 12 | 0.14 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 17 | 0.14 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 3 | 0.14 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 8 | 0.14 |
| (2,194) | 1:31:A:LEU:H | 1:28:A:LEU:HA | 2 | 0.14 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 18 | 0.14 |
| (2,103) | 1:16:A:SEP:H | 1:15:A:ALA:HA | 15 | 0.14 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 9 | 0.14 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 14 | 0.14 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 5 | 0.14 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 6 | 0.14 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 10 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 1 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 2 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 5 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 6 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 7 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 8 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 9 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 10 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 11 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 12 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 13 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 14 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 16 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 17 | 0.14 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 18 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 2 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 3 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 4 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 5 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 10 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 11 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 14 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 15 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 17 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 18 | 0.14 |
| (2,31) | 1:7:A:LEU:H | 1:6:A:TYR:HA | 19 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 2 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 4 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 7 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 12 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 15 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 18 | 0.14 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 19 | 0.14 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 4 | 0.13 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 6 | 0.13 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 9 | 0.13 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 11 | 0.13 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 12 | 0.13 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 16 | 0.13 |
| (2,2045) | 1:50:E:MET:H | 1:50:E:MET:HB3 | 2 | 0.13 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 14 | 0.13 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 14 | 0.13 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 14 | 0.13 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 14 | 0.13 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 6 | 0.13 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 6 | 0.13 |
| (2,1906) | 1:37:E:LEU:H | 1:34:E:ASN:HA | 9 | 0.13 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 16 | 0.13 |
| (2,1891) | 1:35:E:PHE:H | 1:34:E:ASN:HA | 20 | 0.13 |
| (2,1863) | 1:32:E:PHE:H | 1:31:E:LEU:HA | 10 | 0.13 |
| (2,1813) | 1:27:E:ASN:H | 1:25:E:ARG:H | 15 | 0.13 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 15 | 0.13 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 9 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|--------------|-----------------|----------|---------------|
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 1 | 0.13 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 6 | 0.13 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 7 | 0.13 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 12 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 1 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 6 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 7 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 9 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 10 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 12 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 15 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 16 | 0.13 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 20 | 0.13 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 2 | 0.13 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 6 | 0.13 |
| (2,1727) | 1:12:E:ILE:H | 1:11:E:ALA:HA | 15 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 7 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 7 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 7 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 11 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 11 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 11 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 18 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 18 | 0.13 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 18 | 0.13 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 5 | 0.13 |
| (2,1679) | 1:6:E:TYR:H | 1:5:E:GLN:HA | 12 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 4 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 6 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 9 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 11 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 12 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 16 | 0.13 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 20 | 0.13 |
| (2,1631) | 1:50:D:MET:H | 1:50:D:MET:HB3 | 2 | 0.13 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD11 | 14 | 0.13 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD12 | 14 | 0.13 |
| (2,1603) | 1:47:D:ILE:H | 1:47:D:ILE:HD13 | 14 | 0.13 |
| (2,1578) | 1:45:D:ILE:H | 1:42:D:LEU:HA | 14 | 0.13 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 6 | 0.13 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 6 | 0.13 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 19 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 19 | 0.13 |
| (2,1477) | 1:35:D:PHE:H | 1:34:D:ASN:HA | 17 | 0.13 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 13 | 0.13 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 6 | 0.13 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 12 | 0.13 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 17 | 0.13 |
| (2,1449) | 1:32:D:PHE:H | 1:31:D:LEU:HA | 10 | 0.13 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 15 | 0.13 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 18 | 0.13 |
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 9 | 0.13 |
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 16 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 1 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 6 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 7 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 10 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 12 | 0.13 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 19 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 1 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 7 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 9 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 12 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 15 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 16 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 19 | 0.13 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 20 | 0.13 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 2 | 0.13 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 15 | 0.13 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 19 | 0.13 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 11 | 0.13 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 15 | 0.13 |
| (2,1313) | 1:12:D:ILE:H | 1:11:D:ALA:HA | 19 | 0.13 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 18 | 0.13 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 18 | 0.13 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 18 | 0.13 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 5 | 0.13 |
| (2,1265) | 1:6:D:TYR:H | 1:5:D:GLN:HA | 12 | 0.13 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 4 | 0.13 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 11 | 0.13 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 12 | 0.13 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 16 | 0.13 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 2 | 0.13 |
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1217) | 1:50:C:MET:H | 1:50:C:MET:HB3 | 20 | 0.13 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 11 | 0.13 |
| (2,1113) | 1:40:C:ILE:H | 1:37:C:LEU:HA | 6 | 0.13 |
| (2,1098) | 1:39:C:LEU:H | 1:36:C:CYS:HA | 7 | 0.13 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 6 | 0.13 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 16 | 0.13 |
| (2,1063) | 1:35:C:PHE:H | 1:34:C:ASN:HA | 20 | 0.13 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 6 | 0.13 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 6 | 0.13 |
| (2,1035) | 1:32:C:PHE:H | 1:31:C:LEU:HA | 10 | 0.13 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 2 | 0.13 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 15 | 0.13 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 18 | 0.13 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 9 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 1 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 6 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 7 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 10 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 12 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 16 | 0.13 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 19 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 6 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 7 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 12 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 15 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 16 | 0.13 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 20 | 0.13 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 2 | 0.13 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 6 | 0.13 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 15 | 0.13 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 15 | 0.13 |
| (2,899) | 1:12:C:ILE:H | 1:11:C:ALA:HA | 17 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 7 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 7 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 7 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 14 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 14 | 0.13 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 14 | 0.13 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 12 | 0.13 |
| (2,851) | 1:6:C:TYR:H | 1:5:C:GLN:HA | 19 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 4 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 6 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|--------------|----------------|----------|---------------|
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 9 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 11 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 12 | 0.13 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 16 | 0.13 |
| (2,803) | 1:50:B:MET:H | 1:50:B:MET:HB3 | 2 | 0.13 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB2 | 20 | 0.13 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB3 | 20 | 0.13 |
| (2,699) | 1:40:B:ILE:H | 1:37:B:LEU:HA | 14 | 0.13 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 6 | 0.13 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 13 | 0.13 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 15 | 0.13 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 18 | 0.13 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 9 | 0.13 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 16 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 1 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 6 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 7 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 10 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 11 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 12 | 0.13 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 19 | 0.13 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 1 | 0.13 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 7 | 0.13 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 15 | 0.13 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 16 | 0.13 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 15 | 0.13 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 6 | 0.13 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 15 | 0.13 |
| (2,485) | 1:12:B:ILE:H | 1:11:B:ALA:HA | 17 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 2 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 2 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 2 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 7 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 7 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 7 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 11 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 11 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 11 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 18 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 18 | 0.13 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 18 | 0.13 |
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 12 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (2,437) | 1:6:B:TYR:H | 1:5:B:GLN:HA | 14 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 4 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 9 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 11 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 12 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 13 | 0.13 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 18 | 0.13 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 4 | 0.13 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 7 | 0.13 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 15 | 0.13 |
| (2,235) | 1:35:A:PHE:H | 1:34:A:ASN:HA | 20 | 0.13 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 6 | 0.13 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 6 | 0.13 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 12 | 0.13 |
| (2,207) | 1:32:A:PHE:H | 1:31:A:LEU:HA | 10 | 0.13 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 15 | 0.13 |
| (2,103) | 1:16:A:SEP:H | 1:15:A:ALA:HA | 9 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 1 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 6 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 7 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 12 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 16 | 0.13 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 19 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 1 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 6 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 7 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 15 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 16 | 0.13 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 20 | 0.13 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 2 | 0.13 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 15 | 0.13 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 18 | 0.13 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 15 | 0.13 |
| (2,71) | 1:12:A:ILE:H | 1:11:A:ALA:HA | 19 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 7 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 7 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 7 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 11 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 11 | 0.13 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 11 | 0.13 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 5 | 0.13 |
| (2,23) | 1:6:A:TYR:H | 1:5:A:GLN:HA | 14 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 7 | 0.12 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 20 | 0.12 |
| (2,1992) | 1:45:E:ILE:H | 1:42:E:LEU:HA | 8 | 0.12 |
| (2,1965) | 1:43:E:LEU:H | 1:40:E:ILE:HA | 8 | 0.12 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 4 | 0.12 |
| (2,1953) | 1:42:E:LEU:H | 1:39:E:LEU:HB2 | 8 | 0.12 |
| (2,1953) | 1:42:E:LEU:H | 1:39:E:LEU:HB3 | 8 | 0.12 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 6 | 0.12 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 13 | 0.12 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 17 | 0.12 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 5 | 0.12 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 6 | 0.12 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 7 | 0.12 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 10 | 0.12 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 15 | 0.12 |
| (2,1769) | 1:18:E:ILE:H | 1:17:E:THR:H | 11 | 0.12 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 11 | 0.12 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 16 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 3 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 5 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 13 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 15 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 18 | 0.12 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 19 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 2 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 3 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 5 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 8 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 11 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 13 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 14 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 17 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 18 | 0.12 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 19 | 0.12 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 7 | 0.12 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 11 | 0.12 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 18 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 2 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 2 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 2 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 5 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 5 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 10 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 10 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 10 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD11 | 19 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD12 | 19 | 0.12 |
| (2,1704) | 1:9:E:ARG:H | 1:7:E:LEU:HD13 | 19 | 0.12 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 2 | 0.12 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 10 | 0.12 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 13 | 0.12 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 18 | 0.12 |
| (2,1641) | 1:51:D:LEU:H | 1:51:D:LEU:HA | 3 | 0.12 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 14 | 0.12 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 14 | 0.12 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 19 | 0.12 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 20 | 0.12 |
| (2,1539) | 1:42:D:LEU:H | 1:39:D:LEU:HB2 | 8 | 0.12 |
| (2,1539) | 1:42:D:LEU:H | 1:39:D:LEU:HB3 | 8 | 0.12 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 16 | 0.12 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 5 | 0.12 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 10 | 0.12 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 15 | 0.12 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 16 | 0.12 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 18 | 0.12 |
| (2,1436) | 1:31:D:LEU:H | 1:28:D:LEU:HA | 2 | 0.12 |
| (2,1366) | 1:19:D:GLU:H | 1:19:D:GLU:HA | 15 | 0.12 |
| (2,1355) | 1:18:D:ILE:H | 1:17:D:THR:H | 11 | 0.12 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 11 | 0.12 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 3 | 0.12 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 5 | 0.12 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 13 | 0.12 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 15 | 0.12 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 18 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 2 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 3 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 5 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 6 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 8 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 10 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 11 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 13 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 14 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 17 | 0.12 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 18 | 0.12 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 7 | 0.12 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 11 | 0.12 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 14 | 0.12 |
| (2,1314) | 1:12:D:ILE:H | 1:9:D:ARG:HA | 18 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 5 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 5 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 5 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 10 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 10 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 10 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 11 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 11 | 0.12 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 11 | 0.12 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 1 | 0.12 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 2 | 0.12 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 15 | 0.12 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 18 | 0.12 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 20 | 0.12 |
| (2,1227) | 1:51:C:LEU:H | 1:51:C:LEU:HA | 3 | 0.12 |
| (2,1113) | 1:40:C:ILE:H | 1:37:C:LEU:HA | 14 | 0.12 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 5 | 0.12 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 15 | 0.12 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 16 | 0.12 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 18 | 0.12 |
| (2,985) | 1:27:C:ASN:H | 1:25:C:ARG:H | 15 | 0.12 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 7 | 0.12 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 7 | 0.12 |
| (2,952) | 1:19:C:GLU:H | 1:19:C:GLU:HA | 15 | 0.12 |
| (2,941) | 1:18:C:ILE:H | 1:17:C:THR:H | 11 | 0.12 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 11 | 0.12 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 16 | 0.12 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 3 | 0.12 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 5 | 0.12 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 13 | 0.12 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 15 | 0.12 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 18 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 1 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 2 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 3 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 8 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 9 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 10 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 11 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 13 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 14 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 17 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 18 | 0.12 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 19 | 0.12 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 7 | 0.12 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 11 | 0.12 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 18 | 0.12 |
| (2,900) | 1:12:C:ILE:H | 1:9:C:ARG:HA | 19 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 2 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 2 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 2 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 5 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 5 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 5 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 11 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 11 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 11 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 15 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 15 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 15 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 19 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 19 | 0.12 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 19 | 0.12 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 2 | 0.12 |
| (2,813) | 1:51:B:LEU:H | 1:51:B:LEU:HA | 3 | 0.12 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 20 | 0.12 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 15 | 0.12 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 17 | 0.12 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 5 | 0.12 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 6 | 0.12 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 10 | 0.12 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 17 | 0.12 |
| (2,621) | 1:32:B:PHE:H | 1:31:B:LEU:HA | 10 | 0.12 |
| (2,571) | 1:27:B:ASN:H | 1:25:B:ARG:H | 15 | 0.12 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 11 | 0.12 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 3 | 0.12 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 13 | 0.12 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 15 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 3 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 5 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 6 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 8 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 9 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 10 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 12 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 13 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 14 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 17 | 0.12 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 19 | 0.12 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 14 | 0.12 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 19 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 10 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 10 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 10 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 19 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 19 | 0.12 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 19 | 0.12 |
| (2,410) | 1:52:A:LEU:H | 1:51:A:LEU:H | 16 | 0.12 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 2 | 0.12 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 7 | 0.12 |
| (2,408) | 1:52:A:LEU:H | 1:51:A:LEU:HA | 20 | 0.12 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB2 | 8 | 0.12 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB3 | 8 | 0.12 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD1 | 11 | 0.12 |
| (2,287) | 1:39:A:LEU:H | 1:35:A:PHE:HD2 | 11 | 0.12 |
| (2,250) | 1:37:A:LEU:H | 1:34:A:ASN:HA | 16 | 0.12 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 8 | 0.12 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 16 | 0.12 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 5 | 0.12 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 7 | 0.12 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 10 | 0.12 |
| (2,157) | 1:27:A:ASN:H | 1:25:A:ARG:H | 15 | 0.12 |
| (2,128) | 1:20:A:MET:H | 1:19:A:GLU:HA | 14 | 0.12 |
| (2,103) | 1:16:A:SEP:H | 1:15:A:ALA:HA | 16 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 3 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 5 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 10 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 13 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 15 | 0.12 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 18 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 2 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 3 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 5 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 8 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 9 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 10 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 11 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 12 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 13 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 14 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 17 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 18 | 0.12 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 19 | 0.12 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 7 | 0.12 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 11 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 6 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 6 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 6 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 14 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 14 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 14 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 15 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 15 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 15 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 18 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 18 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 18 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 19 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 19 | 0.12 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 19 | 0.12 |
| (2,2127) | 1:47:C:ILE:CG2 | 1:44:B:LEU:CD2 | 8 | 0.11 |
| (2,2064) | 1:52:E:LEU:H | 1:51:E:LEU:HA | 13 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 10 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 10 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 14 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 14 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 16 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 16 | 0.11 |
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB2 | 17 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1980) | 1:44:E:LEU:H | 1:41:E:CYS:HB3 | 17 | 0.11 |
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 20 | 0.11 |
| (2,1946) | 1:41:E:CYS:H | 1:38:E:ILE:HA | 11 | 0.11 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD1 | 11 | 0.11 |
| (2,1943) | 1:39:E:LEU:H | 1:35:E:PHE:HD2 | 11 | 0.11 |
| (2,1941) | 1:40:E:ILE:H | 1:37:E:LEU:HA | 7 | 0.11 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 7 | 0.11 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 2 | 0.11 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 8 | 0.11 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 6 | 0.11 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 13 | 0.11 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 19 | 0.11 |
| (2,1882) | 1:27:E:ASN:HD22 | 1:27:E:ASN:HB3 | 18 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 1 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 4 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 8 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 14 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 19 | 0.11 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 20 | 0.11 |
| (2,1780) | 1:19:E:GLU:H | 1:19:E:GLU:HA | 15 | 0.11 |
| (2,1766) | 1:17:E:THR:H | 1:17:E:THR:HA | 2 | 0.11 |
| (2,1759) | 1:16:E:SEP:H | 1:15:E:ALA:HA | 10 | 0.11 |
| (2,1754) | 1:15:E:ALA:H | 1:14:E:ARG:HA | 8 | 0.11 |
| (2,1741) | 1:13:E:ARG:H | 1:12:E:ILE:HA | 4 | 0.11 |
| (2,1728) | 1:12:E:ILE:H | 1:9:E:ARG:HA | 19 | 0.11 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 15 | 0.11 |
| (2,1544) | 1:42:D:LEU:H | 1:39:D:LEU:HA | 5 | 0.11 |
| (2,1527) | 1:40:D:ILE:H | 1:37:D:LEU:HA | 6 | 0.11 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 1 | 0.11 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 2 | 0.11 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 15 | 0.11 |
| (2,1474) | 1:35:D:PHE:H | 1:33:D:ILE:HB | 20 | 0.11 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 3 | 0.11 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 5 | 0.11 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 6 | 0.11 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 13 | 0.11 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 19 | 0.11 |
| (2,1468) | 1:27:D:ASN:HD22 | 1:27:D:ASN:HB3 | 7 | 0.11 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 1 | 0.11 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 4 | 0.11 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 8 | 0.11 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 19 | 0.11 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 20 | 0.11 |
| (2,1370) | 1:20:D:MET:H | 1:19:D:GLU:HA | 14 | 0.11 |
| (2,1352) | 1:17:D:THR:H | 1:17:D:THR:HA | 2 | 0.11 |
| (2,1345) | 1:16:D:SEP:H | 1:15:D:ALA:HA | 10 | 0.11 |
| (2,1340) | 1:15:D:ALA:H | 1:14:D:ARG:HA | 8 | 0.11 |
| (2,1327) | 1:13:D:ARG:H | 1:12:D:ILE:HA | 4 | 0.11 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 2 | 0.11 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 2 | 0.11 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 2 | 0.11 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 10 | 0.11 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 13 | 0.11 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD11 | 2 | 0.11 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD12 | 2 | 0.11 |
| (2,1189) | 1:47:C:ILE:H | 1:47:C:ILE:HD13 | 2 | 0.11 |
| (2,1137) | 1:43:C:LEU:H | 1:40:C:ILE:HA | 8 | 0.11 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 5 | 0.11 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 20 | 0.11 |
| (2,1125) | 1:42:C:LEU:H | 1:39:C:LEU:HB2 | 8 | 0.11 |
| (2,1125) | 1:42:C:LEU:H | 1:39:C:LEU:HB3 | 8 | 0.11 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD1 | 11 | 0.11 |
| (2,1115) | 1:39:C:LEU:H | 1:35:C:PHE:HD2 | 11 | 0.11 |
| (2,1113) | 1:40:C:ILE:H | 1:37:C:LEU:HA | 16 | 0.11 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 14 | 0.11 |
| (2,1078) | 1:37:C:LEU:H | 1:34:C:ASN:HA | 16 | 0.11 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 11 | 0.11 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 16 | 0.11 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 17 | 0.11 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 4 | 0.11 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 5 | 0.11 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 6 | 0.11 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 13 | 0.11 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 19 | 0.11 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 7 | 0.11 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 10 | 0.11 |
| (2,1054) | 1:27:C:ASN:HD22 | 1:27:C:ASN:HB3 | 17 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 1 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 4 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 8 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 14 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 19 | 0.11 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 20 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,956) | 1:20:C:MET:H | 1:19:C:GLU:HA | 14 | 0.11 |
| (2,938) | 1:17:C:THR:H | 1:17:C:THR:HA | 2 | 0.11 |
| (2,931) | 1:16:C:SEP:H | 1:15:C:ALA:HA | 10 | 0.11 |
| (2,926) | 1:15:C:ALA:H | 1:14:C:ARG:HA | 8 | 0.11 |
| (2,913) | 1:13:C:ARG:H | 1:12:C:ILE:HA | 4 | 0.11 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 10 | 0.11 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 10 | 0.11 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 10 | 0.11 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 8 | 0.11 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 13 | 0.11 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 14 | 0.11 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 20 | 0.11 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB2 | 10 | 0.11 |
| (2,738) | 1:44:B:LEU:H | 1:41:B:CYS:HB3 | 10 | 0.11 |
| (2,716) | 1:42:B:LEU:H | 1:39:B:LEU:HA | 5 | 0.11 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 9 | 0.11 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 20 | 0.11 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 5 | 0.11 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 6 | 0.11 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 10 | 0.11 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 13 | 0.11 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 7 | 0.11 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 15 | 0.11 |
| (2,640) | 1:27:B:ASN:HD22 | 1:27:B:ASN:HB3 | 18 | 0.11 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 1 | 0.11 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 8 | 0.11 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 11 | 0.11 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 19 | 0.11 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 20 | 0.11 |
| (2,542) | 1:20:B:MET:H | 1:19:B:GLU:HA | 14 | 0.11 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG12 | 7 | 0.11 |
| (2,541) | 1:20:B:MET:H | 1:18:B:ILE:HG13 | 7 | 0.11 |
| (2,538) | 1:19:B:GLU:H | 1:19:B:GLU:HA | 15 | 0.11 |
| (2,527) | 1:18:B:ILE:H | 1:17:B:THR:H | 11 | 0.11 |
| (2,524) | 1:17:B:THR:H | 1:17:B:THR:HA | 2 | 0.11 |
| (2,517) | 1:16:B:SEP:H | 1:15:B:ALA:HA | 10 | 0.11 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 8 | 0.11 |
| (2,512) | 1:15:B:ALA:H | 1:14:B:ARG:HA | 18 | 0.11 |
| (2,499) | 1:13:B:ARG:H | 1:12:B:ILE:HA | 4 | 0.11 |
| (2,486) | 1:12:B:ILE:H | 1:9:B:ARG:HA | 7 | 0.11 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD11 | 5 | 0.11 |
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD12 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,462) | 1:9:B:ARG:H | 1:7:B:LEU:HD13 | 5 | 0.11 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD11 | 2 | 0.11 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD12 | 2 | 0.11 |
| (2,361) | 1:47:A:ILE:H | 1:47:A:ILE:HD13 | 2 | 0.11 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB2 | 16 | 0.11 |
| (2,324) | 1:44:A:LEU:H | 1:41:A:CYS:HB3 | 16 | 0.11 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB2 | 7 | 0.11 |
| (2,297) | 1:42:A:LEU:H | 1:39:A:LEU:HB3 | 7 | 0.11 |
| (2,270) | 1:39:A:LEU:H | 1:36:A:CYS:HA | 1 | 0.11 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 1 | 0.11 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 12 | 0.11 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 15 | 0.11 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 5 | 0.11 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 6 | 0.11 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 13 | 0.11 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 19 | 0.11 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 15 | 0.11 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 16 | 0.11 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 17 | 0.11 |
| (2,226) | 1:27:A:ASN:HD22 | 1:27:A:ASN:HB3 | 18 | 0.11 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 1 | 0.11 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 4 | 0.11 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 11 | 0.11 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 19 | 0.11 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 20 | 0.11 |
| (2,124) | 1:19:A:GLU:H | 1:19:A:GLU:HA | 15 | 0.11 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 2 | 0.11 |
| (2,98) | 1:15:A:ALA:H | 1:14:A:ARG:HA | 8 | 0.11 |
| (2,85) | 1:13:A:ARG:H | 1:12:A:ILE:HA | 4 | 0.11 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 14 | 0.11 |
| (2,72) | 1:12:A:ILE:H | 1:9:A:ARG:HA | 19 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 2 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 2 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 2 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD11 | 5 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD12 | 5 | 0.11 |
| (2,48) | 1:9:A:ARG:H | 1:7:A:LEU:HD13 | 5 | 0.11 |
| (2,2127) | 1:47:C:ILE:CG2 | 1:44:B:LEU:CD2 | 17 | 0.1 |
| (2,2066) | 1:52:E:LEU:H | 1:51:E:LEU:H | 3 | 0.1 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD11 | 1 | 0.1 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD12 | 1 | 0.1 |
| (2,2017) | 1:47:E:ILE:H | 1:47:E:ILE:HD13 | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1958) | 1:42:E:LEU:H | 1:39:E:LEU:HA | 19 | 0.1 |
| (2,1926) | 1:39:E:LEU:H | 1:36:E:CYS:HA | 4 | 0.1 |
| (2,1888) | 1:35:E:PHE:H | 1:33:E:ILE:HB | 15 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 1 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 2 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 3 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 4 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 5 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 7 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 8 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 9 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 10 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 11 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 12 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 14 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 15 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 16 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 17 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 18 | 0.1 |
| (2,1883) | 1:27:E:ASN:HD21 | 1:27:E:ASN:HD22 | 20 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 2 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 3 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 5 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 6 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 7 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 9 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 10 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 11 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 12 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 13 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 15 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 16 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 17 | 0.1 |
| (2,1830) | 1:30:E:ASN:HD21 | 1:30:E:ASN:HD22 | 18 | 0.1 |
| (2,1650) | 1:52:D:LEU:H | 1:51:D:LEU:HA | 1 | 0.1 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB2 | 18 | 0.1 |
| (2,1566) | 1:44:D:LEU:H | 1:41:D:CYS:HB3 | 18 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 1 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 2 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 4 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 7 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 8 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 9 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 10 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 11 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 12 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 14 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 15 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 16 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 17 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 18 | 0.1 |
| (2,1469) | 1:27:D:ASN:HD21 | 1:27:D:ASN:HD22 | 20 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 2 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 3 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 5 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 6 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 7 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 9 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 10 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 11 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 12 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 13 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 15 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 16 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 17 | 0.1 |
| (2,1416) | 1:30:D:ASN:HD21 | 1:30:D:ASN:HD22 | 18 | 0.1 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD11 | 3 | 0.1 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD12 | 3 | 0.1 |
| (2,1290) | 1:9:D:ARG:H | 1:7:D:LEU:HD13 | 3 | 0.1 |
| (2,1236) | 1:52:C:LEU:H | 1:51:C:LEU:HA | 14 | 0.1 |
| (2,1156) | 1:44:C:LEU:H | 1:44:C:LEU:HA | 5 | 0.1 |
| (2,1156) | 1:44:C:LEU:H | 1:44:C:LEU:HA | 10 | 0.1 |
| (2,1156) | 1:44:C:LEU:H | 1:44:C:LEU:HA | 17 | 0.1 |
| (2,1130) | 1:42:C:LEU:H | 1:39:C:LEU:HA | 14 | 0.1 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 12 | 0.1 |
| (2,1060) | 1:35:C:PHE:H | 1:33:C:ILE:HB | 15 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 1 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 2 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 3 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 7 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 8 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 9 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 10 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 11 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 12 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 14 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 15 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 16 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 17 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 18 | 0.1 |
| (2,1055) | 1:27:C:ASN:HD21 | 1:27:C:ASN:HD22 | 20 | 0.1 |
| (2,1022) | 1:31:C:LEU:H | 1:28:C:LEU:HA | 4 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 2 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 3 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 5 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 6 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 7 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 9 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 10 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 11 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 12 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 13 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 15 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 16 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 17 | 0.1 |
| (2,1002) | 1:30:C:ASN:HD21 | 1:30:C:ASN:HD22 | 18 | 0.1 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG12 | 9 | 0.1 |
| (2,955) | 1:20:C:MET:H | 1:18:C:ILE:HG13 | 9 | 0.1 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD11 | 6 | 0.1 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD12 | 6 | 0.1 |
| (2,876) | 1:9:C:ARG:H | 1:7:C:LEU:HD13 | 6 | 0.1 |
| (2,822) | 1:52:B:LEU:H | 1:51:B:LEU:HA | 1 | 0.1 |
| (2,813) | 1:51:B:LEU:H | 1:51:B:LEU:HA | 14 | 0.1 |
| (2,742) | 1:44:B:LEU:H | 1:44:B:LEU:HA | 14 | 0.1 |
| (2,684) | 1:39:B:LEU:H | 1:36:B:CYS:HA | 18 | 0.1 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 11 | 0.1 |
| (2,646) | 1:35:B:PHE:H | 1:33:B:ILE:HB | 16 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 1 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 2 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 3 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 4 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 7 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 8 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 9 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 11 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 12 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 14 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 15 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 16 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 17 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 18 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 19 | 0.1 |
| (2,641) | 1:27:B:ASN:HD21 | 1:27:B:ASN:HD22 | 20 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 2 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 3 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 4 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 5 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 6 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 7 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 9 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 10 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 12 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 13 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 14 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 15 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 16 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 17 | 0.1 |
| (2,588) | 1:30:B:ASN:HD21 | 1:30:B:ASN:HD22 | 18 | 0.1 |
| (2,309) | 1:43:A:LEU:H | 1:40:A:ILE:HA | 8 | 0.1 |
| (2,302) | 1:42:A:LEU:H | 1:39:A:LEU:HA | 12 | 0.1 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 2 | 0.1 |
| (2,232) | 1:35:A:PHE:H | 1:33:A:ILE:HB | 20 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 1 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 2 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 3 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 4 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 7 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 8 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 9 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 10 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 11 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 12 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 14 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 15 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 16 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 17 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 18 | 0.1 |
| (2,227) | 1:27:A:ASN:HD21 | 1:27:A:ASN:HD22 | 20 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 2 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 3 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 5 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 6 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 7 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 8 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 9 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 10 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 12 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 13 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 14 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 15 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 16 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 17 | 0.1 |
| (2,174) | 1:30:A:ASN:HD21 | 1:30:A:ASN:HD22 | 18 | 0.1 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG12 | 7 | 0.1 |
| (2,127) | 1:20:A:MET:H | 1:18:A:ILE:HG13 | 7 | 0.1 |
| (2,110) | 1:17:A:THR:H | 1:17:A:THR:HA | 11 | 0.1 |

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

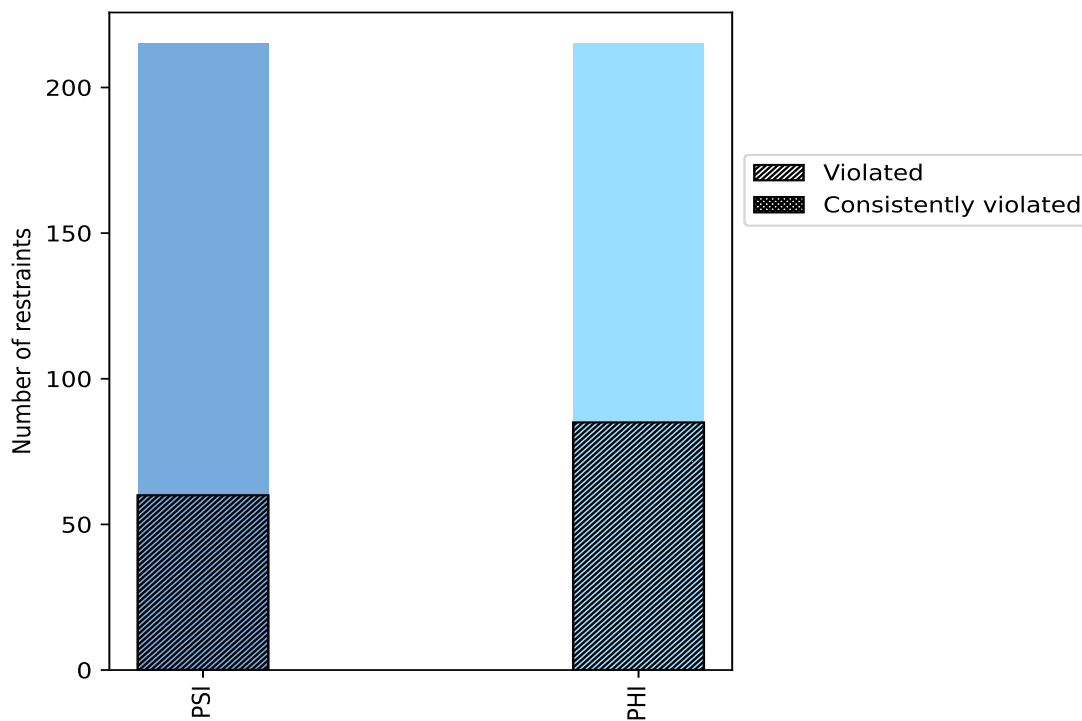
10.1 Summary of dihedral-angle violations [i](#)

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

| Angle type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|------------|-------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| PSI | 215 | 50.0 | 60 | 27.9 | 14.0 | 0 | 0.0 | 0.0 |
| PHI | 215 | 50.0 | 85 | 39.5 | 19.8 | 0 | 0.0 | 0.0 |
| Total | 430 | 100.0 | 145 | 33.7 | 33.7 | 0 | 0.0 | 0.0 |

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

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



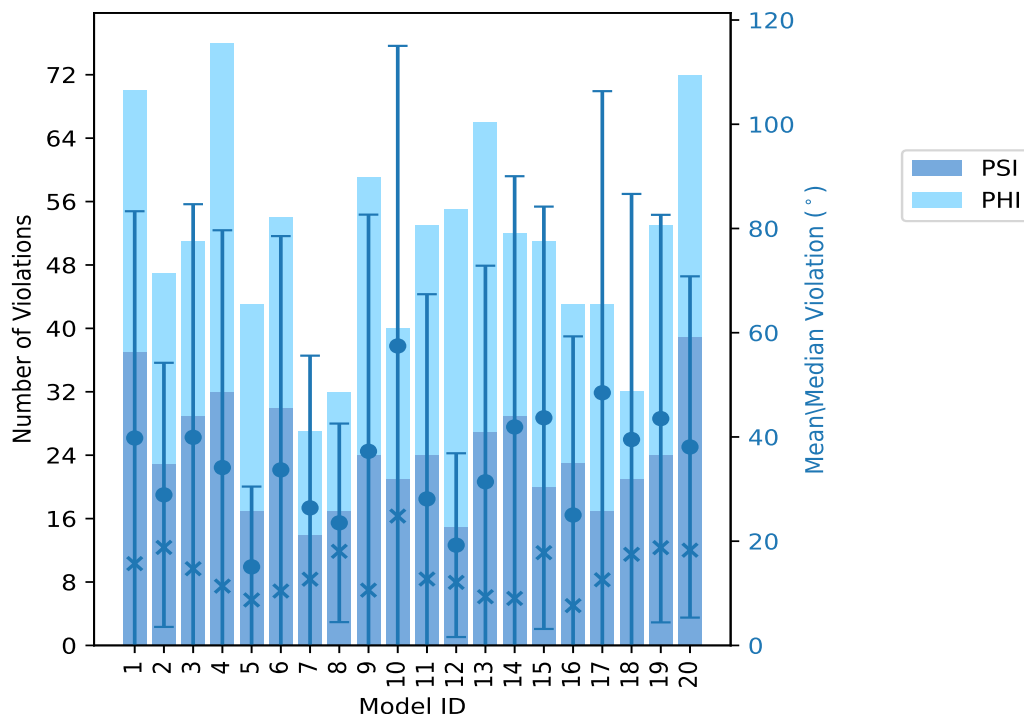
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

| Model ID | Number of violations | | | Mean (°) | Max (°) | SD (°) | Median (°) |
|----------|----------------------|-----|-------|----------|---------|--------|------------|
| | PSI | PHI | Total | | | | |
| 1 | 37 | 33 | 70 | 39.8 | 131.46 | 43.51 | 15.7 |
| 2 | 23 | 24 | 47 | 28.89 | 78.41 | 25.34 | 18.8 |
| 3 | 29 | 22 | 51 | 39.93 | 120.34 | 44.73 | 14.72 |
| 4 | 32 | 44 | 76 | 34.13 | 165.47 | 45.53 | 11.38 |
| 5 | 17 | 26 | 43 | 15.08 | 42.63 | 15.4 | 8.73 |
| 6 | 30 | 24 | 54 | 33.68 | 136.69 | 44.86 | 10.44 |
| 7 | 14 | 13 | 27 | 26.39 | 78.51 | 29.21 | 12.71 |
| 8 | 17 | 15 | 32 | 23.52 | 64.36 | 19.05 | 18.06 |
| 9 | 24 | 35 | 59 | 37.25 | 155.31 | 45.41 | 10.61 |
| 10 | 21 | 19 | 40 | 57.46 | 153.59 | 57.58 | 24.82 |
| 11 | 24 | 29 | 53 | 28.11 | 125.97 | 39.28 | 12.74 |
| 12 | 15 | 40 | 55 | 19.24 | 64.37 | 17.63 | 12.1 |
| 13 | 27 | 39 | 66 | 31.4 | 123.9 | 41.46 | 9.35 |
| 14 | 29 | 23 | 52 | 41.92 | 131.79 | 48.11 | 9.02 |
| 15 | 20 | 31 | 51 | 43.68 | 114.19 | 40.52 | 17.8 |
| 16 | 23 | 20 | 43 | 25.02 | 100.05 | 34.28 | 7.64 |
| 17 | 17 | 26 | 43 | 48.48 | 168.14 | 57.87 | 12.6 |
| 18 | 21 | 11 | 32 | 39.51 | 144.32 | 47.12 | 17.48 |
| 19 | 24 | 29 | 53 | 43.52 | 116.68 | 39.1 | 18.76 |
| 20 | 39 | 33 | 72 | 38.08 | 91.75 | 32.74 | 18.28 |

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



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

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

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

| Number of violated restraints | | | Fraction of the ensemble | |
|-------------------------------|-----|-------|--------------------------|------|
| PSI | PHI | Total | Count ¹ | % |
| 3 | 19 | 22 | 1 | 5.0 |
| 5 | 7 | 12 | 2 | 10.0 |
| 1 | 11 | 12 | 3 | 15.0 |
| 11 | 0 | 11 | 4 | 20.0 |
| 5 | 10 | 15 | 5 | 25.0 |
| 3 | 9 | 12 | 6 | 30.0 |
| 0 | 0 | 0 | 7 | 35.0 |
| 7 | 2 | 9 | 8 | 40.0 |
| 5 | 5 | 10 | 9 | 45.0 |
| 5 | 3 | 8 | 10 | 50.0 |
| 0 | 3 | 3 | 11 | 55.0 |

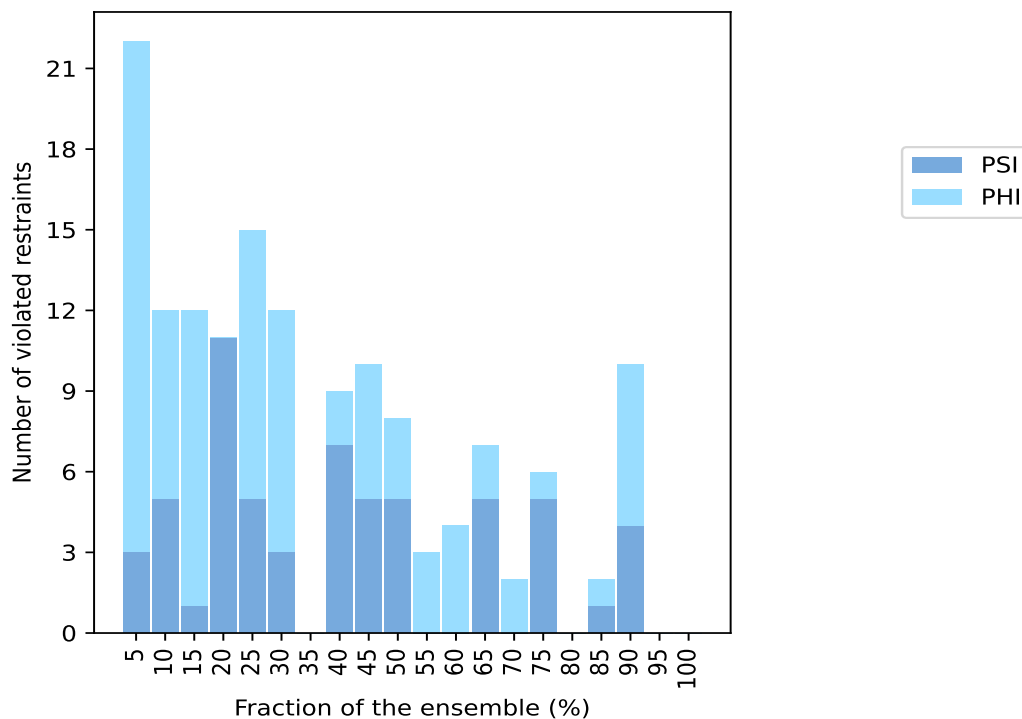
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| Number of violated restraints | | | Fraction of the ensemble | |
|-------------------------------|-----|-------|--------------------------|-------|
| PSI | PHI | Total | Count ¹ | % |
| 0 | 4 | 4 | 12 | 60.0 |
| 5 | 2 | 7 | 13 | 65.0 |
| 0 | 2 | 2 | 14 | 70.0 |
| 5 | 1 | 6 | 15 | 75.0 |
| 0 | 0 | 0 | 16 | 80.0 |
| 1 | 1 | 2 | 17 | 85.0 |
| 4 | 6 | 10 | 18 | 90.0 |
| 0 | 0 | 0 | 19 | 95.0 |
| 0 | 0 | 0 | 20 | 100.0 |

¹ Number of models with violations

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

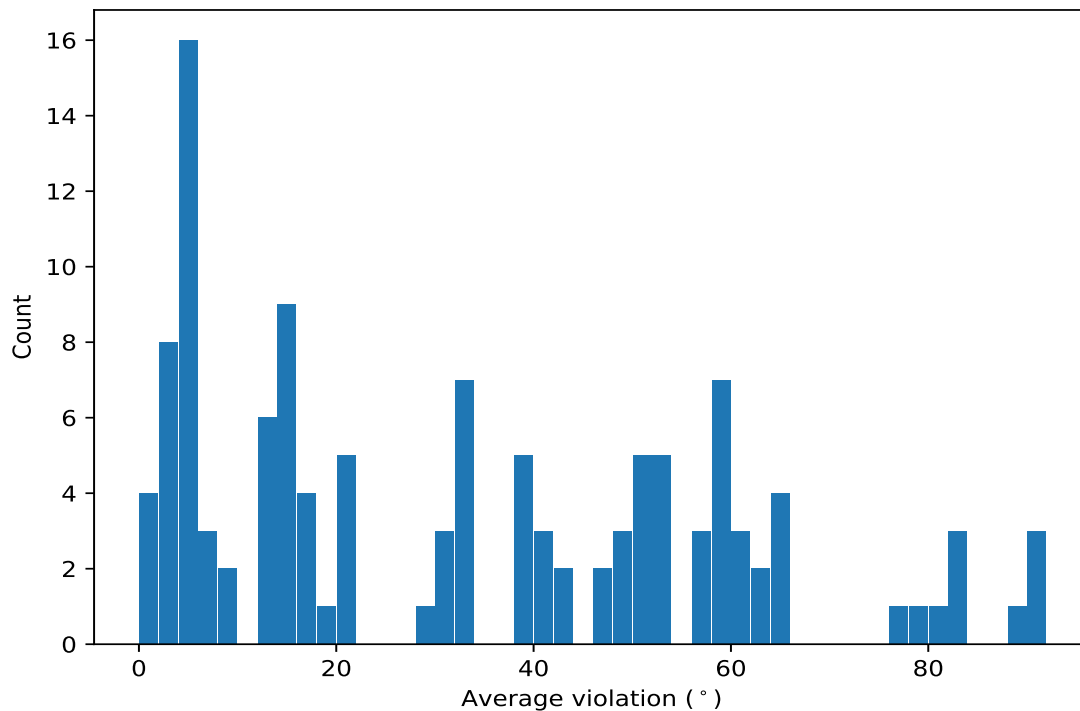


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|--------------|---------------|---------------|--------------|---------------------|-------|-----------------|--------|
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 18 | 83.03 | 53.47 | 87.1 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 18 | 82.6 | 54.23 | 86.24 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 18 | 78.01 | 56.41 | 70.64 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 18 | 77.73 | 56.13 | 71.38 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 18 | 13.26 | 10.01 | 9.73 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 18 | 12.42 | 9.8 | 7.92 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 18 | 12.33 | 9.76 | 9.04 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 18 | 12.31 | 9.77 | 7.7 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 18 | 12.29 | 9.74 | 7.41 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 18 | 7.29 | 4.65 | 6.44 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 17 | 82.21 | 55.48 | 77.13 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 17 | 7.55 | 4.71 | 5.78 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 15 | 51.18 | 39.72 | 42.27 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 15 | 51.15 | 39.86 | 41.58 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 15 | 51.09 | 39.8 | 42.38 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 15 | 51.06 | 39.77 | 41.84 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 15 | 50.93 | 39.56 | 41.85 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 15 | 38.44 | 38.45 | 15.51 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 14 | 41.0 | 38.41 | 22.28 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 14 | 40.13 | 37.86 | 18.7 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|--------------|---------------|---------------|--------------|---------------------|-------|-----------------|--------|
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 13 | 48.38 | 52.0 | 13.81 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 13 | 48.24 | 51.89 | 14.24 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 13 | 48.19 | 51.96 | 13.83 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 13 | 47.87 | 51.98 | 14.16 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 13 | 46.69 | 52.91 | 14.04 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 13 | 43.64 | 38.15 | 23.67 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 13 | 43.6 | 37.36 | 23.54 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 12 | 20.66 | 27.42 | 15.22 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 12 | 20.64 | 27.45 | 15.04 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 12 | 20.52 | 27.54 | 15.0 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 12 | 20.26 | 27.59 | 15.07 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 11 | 21.93 | 28.42 | 16.03 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 11 | 5.22 | 4.15 | 3.75 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 11 | 2.18 | 1.07 | 2.06 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 10 | 5.94 | 2.31 | 6.5 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 10 | 5.82 | 2.54 | 5.64 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 10 | 5.81 | 2.47 | 5.38 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 10 | 5.81 | 2.4 | 5.69 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 10 | 5.41 | 2.12 | 4.6 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 10 | 4.23 | 2.53 | 3.42 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 10 | 4.02 | 2.38 | 3.57 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 10 | 2.7 | 1.27 | 2.85 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 9 | 63.3 | 46.29 | 54.08 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 9 | 62.25 | 45.22 | 54.45 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 9 | 60.86 | 45.02 | 53.38 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 9 | 60.8 | 44.16 | 53.18 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 9 | 60.79 | 44.25 | 53.52 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 9 | 33.99 | 29.16 | 20.56 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 9 | 33.52 | 29.04 | 21.11 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 9 | 33.36 | 29.22 | 20.4 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 9 | 33.26 | 28.97 | 20.87 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 9 | 33.13 | 29.3 | 20.8 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 8 | 59.57 | 42.85 | 60.72 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 8 | 58.18 | 42.28 | 60.41 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 8 | 57.91 | 42.04 | 60.22 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 8 | 57.77 | 42.12 | 59.77 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 8 | 57.67 | 42.08 | 59.02 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 8 | 18.18 | 1.38 | 18.3 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 8 | 17.05 | 2.14 | 16.87 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 8 | 14.45 | 0.99 | 14.8 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 8 | 13.8 | 1.96 | 13.42 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 6 | 80.41 | 24.87 | 82.07 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 6 | 16.81 | 2.05 | 16.82 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 6 | 15.16 | 10.42 | 13.52 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 6 | 15.02 | 0.94 | 14.93 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 6 | 14.97 | 10.27 | 13.04 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 6 | 14.91 | 10.3 | 12.88 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 6 | 14.9 | 10.38 | 12.64 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 6 | 14.82 | 10.34 | 12.86 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 6 | 4.24 | 2.72 | 4.12 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 6 | 2.55 | 1.02 | 2.7 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|--------------|---------------|---------------|--------------|---------------------|-------|-----------------|--------|
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 6 | 2.14 | 0.56 | 2.3 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 6 | 1.81 | 0.62 | 1.56 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 5 | 90.89 | 12.64 | 87.17 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 5 | 90.67 | 12.89 | 86.49 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 5 | 90.15 | 13.41 | 85.88 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 5 | 89.68 | 13.98 | 87.69 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 5 | 65.03 | 38.73 | 74.16 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 5 | 64.96 | 38.84 | 74.21 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 5 | 64.91 | 38.84 | 74.25 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 5 | 64.71 | 38.56 | 74.42 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 5 | 40.2 | 37.33 | 12.88 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 5 | 39.66 | 39.27 | 11.9 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 5 | 39.54 | 40.07 | 11.47 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 5 | 39.32 | 39.51 | 11.9 |
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 5 | 38.82 | 40.32 | 9.83 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 5 | 28.27 | 24.48 | 13.62 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 5 | 2.08 | 0.44 | 1.94 |
| (1,232) | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1:19:C:GLU:N | 4 | 59.6 | 52.99 | 55.68 |
| (1,404) | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1:19:E:GLU:N | 4 | 59.36 | 52.82 | 55.08 |
| (1,60) | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1:19:A:GLU:N | 4 | 59.3 | 53.39 | 55.6 |
| (1,146) | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1:19:B:GLU:N | 4 | 59.08 | 53.06 | 54.4 |
| (1,318) | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1:19:D:GLU:N | 4 | 59.0 | 52.92 | 54.72 |
| (1,406) | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 1:23:E:GLN:N | 4 | 32.12 | 29.5 | 22.18 |
| (1,320) | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 1:23:D:GLN:N | 4 | 32.07 | 30.23 | 22.44 |
| (1,148) | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 1:23:B:GLN:N | 4 | 31.99 | 30.05 | 21.14 |
| (1,62) | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 1:23:A:GLN:N | 4 | 31.73 | 30.13 | 21.75 |
| (1,234) | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 1:23:C:GLN:N | 4 | 31.57 | 30.31 | 21.27 |
| (1,161) | 1:39:B:LEU:N | 1:39:B:LEU:CA | 1:39:B:LEU:C | 1:40:B:ILE:N | 4 | 4.21 | 0.8 | 4.22 |
| (1,100) | 1:14:B:ARG:C | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 3 | 53.11 | 12.74 | 51.12 |
| (1,358) | 1:14:E:ARG:C | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 3 | 53.06 | 14.17 | 51.25 |
| (1,14) | 1:14:A:ARG:C | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 3 | 53.02 | 13.98 | 51.31 |
| (1,272) | 1:14:D:ARG:C | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 3 | 53.0 | 13.85 | 51.53 |
| (1,186) | 1:14:C:ARG:C | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 3 | 52.19 | 13.73 | 49.88 |
| (1,197) | 1:31:C:LEU:C | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 3 | 6.0 | 0.86 | 6.39 |
| (1,369) | 1:31:E:LEU:C | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 3 | 5.82 | 1.1 | 6.32 |
| (1,25) | 1:31:A:LEU:C | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 3 | 5.74 | 1.68 | 6.07 |
| (1,283) | 1:31:D:LEU:C | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 3 | 5.66 | 0.48 | 5.94 |
| (1,111) | 1:31:B:LEU:C | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 3 | 5.53 | 0.68 | 5.7 |
| (1,202) | 1:36:C:CYS:C | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 3 | 5.47 | 2.99 | 7.1 |
| (1,416) | 1:36:E:CYS:N | 1:36:E:CYS:CA | 1:36:E:CYS:C | 1:37:E:LEU:N | 3 | 3.09 | 1.45 | 4.01 |
| (1,331) | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 1:38:D:ILE:N | 2 | 17.9 | 0.02 | 17.9 |
| (1,73) | 1:37:A:LEU:N | 1:37:A:LEU:CA | 1:37:A:LEU:C | 1:38:A:ILE:N | 2 | 16.34 | 2.11 | 16.34 |
| (1,31) | 1:37:A:LEU:C | 1:38:A:ILE:N | 1:38:A:ILE:CA | 1:38:A:ILE:C | 2 | 15.56 | 0.55 | 15.56 |
| (1,289) | 1:37:D:LEU:C | 1:38:D:ILE:N | 1:38:D:ILE:CA | 1:38:D:ILE:C | 2 | 14.06 | 0.15 | 14.06 |
| (1,429) | 1:50:E:MET:N | 1:50:E:MET:CA | 1:50:E:MET:C | 1:51:E:LEU:N | 2 | 9.42 | 5.87 | 9.42 |
| (1,85) | 1:50:A:MET:N | 1:50:A:MET:CA | 1:50:A:MET:C | 1:51:A:LEU:N | 2 | 8.19 | 6.63 | 8.19 |
| (1,288) | 1:36:D:CYS:C | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 2 | 4.77 | 2.43 | 4.77 |
| (1,244) | 1:36:C:CYS:N | 1:36:C:CYS:CA | 1:36:C:CYS:C | 1:37:C:LEU:N | 2 | 3.76 | 0.7 | 3.76 |
| (1,262) | 1:4:D:VAL:C | 1:5:D:GLN:N | 1:5:D:GLN:CA | 1:5:D:GLN:C | 2 | 2.83 | 0.9 | 2.83 |
| (1,367) | 1:29:E:GLN:C | 1:30:E:ASN:N | 1:30:E:ASN:CA | 1:30:E:ASN:C | 2 | 1.81 | 0.22 | 1.81 |
| (1,4) | 1:4:A:VAL:C | 1:5:A:GLN:N | 1:5:A:GLN:CA | 1:5:A:GLN:C | 2 | 1.77 | 0.58 | 1.77 |

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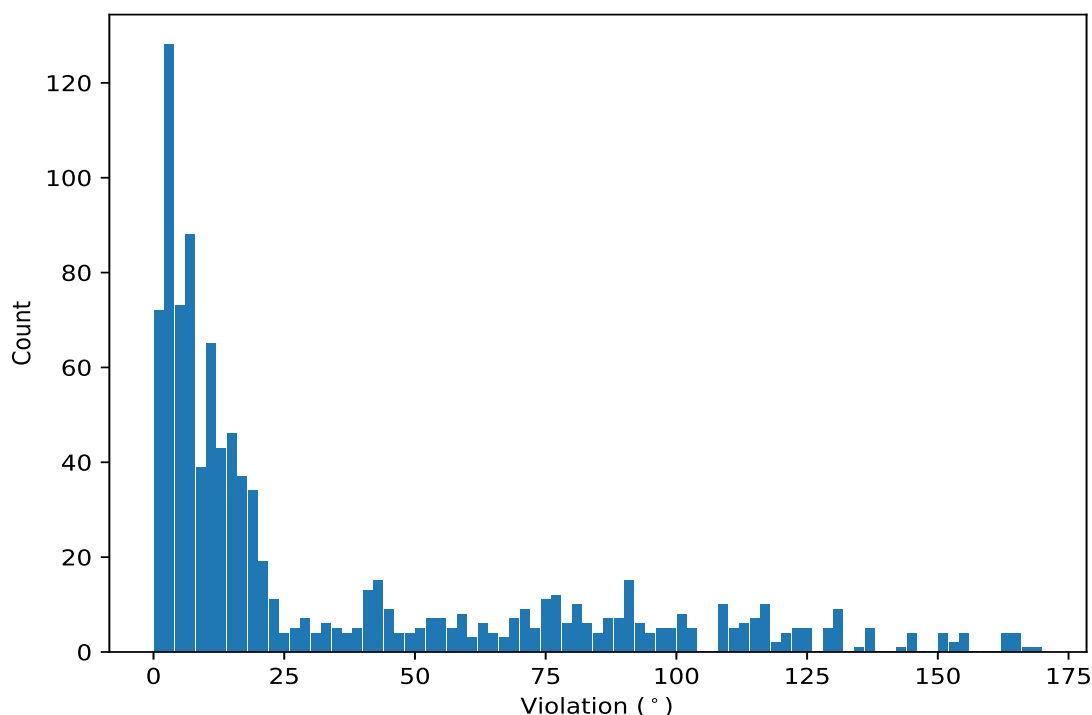
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|--------------|--------------|---------------|--------------|---------------------|------|-----------------|--------|
| (1,380) | 1:42:E:LEU:C | 1:43:E:LEU:N | 1:43:E:LEU:CA | 1:43:E:LEU:C | 2 | 1.48 | 0.14 | 1.48 |

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

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

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

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



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

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|--------------|--------------|----------|---------------|
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 17 | 168.14 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 17 | 166.62 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 4 | 165.47 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 4 | 165.12 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 4 | 165.04 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 4 | 165.01 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 17 | 163.56 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 17 | 163.42 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 4 | 163.12 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 17 | 162.33 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 9 | 155.31 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 9 | 154.57 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 9 | 154.42 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 9 | 154.38 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 9 | 153.93 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 10 | 153.59 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 10 | 151.03 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 10 | 150.93 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 10 | 150.82 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 10 | 150.71 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 18 | 144.32 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 18 | 144.32 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 18 | 144.22 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 18 | 144.09 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 18 | 143.97 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 6 | 136.69 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 6 | 136.54 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 6 | 136.18 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 6 | 136.07 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 6 | 136.01 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 10 | 135.08 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 14 | 131.79 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 1 | 131.46 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 1 | 131.32 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 14 | 131.2 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 14 | 131.1 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 1 | 131.04 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 1 | 131.0 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 1 | 130.97 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 14 | 130.1 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 14 | 129.43 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 10 | 128.5 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 10 | 128.2 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 10 | 128.19 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 10 | 128.13 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 11 | 125.97 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 11 | 125.91 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 11 | 125.77 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 11 | 125.68 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 11 | 125.57 |
| (1,318) | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1:19:D:GLU:N | 13 | 123.9 |
| (1,146) | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1:19:B:GLU:N | 13 | 123.88 |
| (1,60) | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1:19:A:GLU:N | 13 | 123.8 |
| (1,404) | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1:19:E:GLU:N | 13 | 123.79 |
| (1,232) | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1:19:C:GLU:N | 13 | 123.68 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 3 | 120.34 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 3 | 120.15 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 3 | 120.13 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 3 | 120.05 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 3 | 119.95 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 3 | 118.03 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 3 | 117.99 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 3 | 117.96 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 3 | 117.9 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 19 | 116.68 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 3 | 116.6 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 10 | 116.45 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 10 | 116.41 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 10 | 116.3 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 10 | 116.29 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 19 | 116.14 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 17 | 114.77 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 19 | 114.57 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 15 | 114.19 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 17 | 114.07 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 15 | 114.06 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 15 | 114.03 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 15 | 114.02 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 15 | 113.99 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 17 | 112.88 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 17 | 112.58 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 19 | 112.31 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 17 | 112.25 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 19 | 112.2 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 13 | 111.51 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 13 | 111.34 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 13 | 111.02 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 13 | 110.84 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 13 | 110.61 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 14 | 109.46 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 14 | 109.36 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 14 | 109.25 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 14 | 109.23 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 14 | 109.07 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 1 | 108.9 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 1 | 108.78 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 1 | 108.74 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 1 | 108.73 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 1 | 108.61 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 4 | 102.97 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 4 | 102.82 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 15 | 102.81 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 4 | 102.74 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 4 | 102.69 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 4 | 101.96 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 1 | 100.47 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 1 | 100.39 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 1 | 100.36 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 1 | 100.36 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 1 | 100.23 |
| (1,60) | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1:19:A:GLU:N | 16 | 100.05 |
| (1,232) | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1:19:C:GLU:N | 16 | 100.0 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 15 | 99.23 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 15 | 99.07 |
| (1,404) | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1:19:E:GLU:N | 16 | 98.96 |
| (1,146) | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1:19:B:GLU:N | 16 | 98.81 |
| (1,318) | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1:19:D:GLU:N | 16 | 98.19 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 15 | 97.15 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 16 | 96.79 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 15 | 96.67 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 15 | 96.6 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 17 | 96.18 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 16 | 95.96 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 17 | 95.69 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 15 | 94.48 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 14 | 94.13 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 15 | 93.79 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 14 | 93.58 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 14 | 93.49 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 17 | 93.1 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 15 | 92.8 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 15 | 92.6 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 11 | 91.78 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 11 | 91.76 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 11 | 91.75 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 20 | 91.75 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 20 | 91.68 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 20 | 91.62 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 19 | 91.52 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 20 | 91.5 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 20 | 91.18 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 6 | 90.92 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 19 | 90.64 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 19 | 90.43 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 14 | 90.35 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 11 | 90.24 |
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 6 | 90.01 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 6 | 89.84 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 19 | 89.79 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 6 | 89.65 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 19 | 89.63 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 6 | 89.51 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 17 | 88.26 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 17 | 88.14 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 19 | 87.69 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 19 | 87.17 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 14 | 87.11 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 19 | 86.49 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 19 | 86.43 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 4 | 86.21 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 4 | 86.02 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 19 | 85.88 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 4 | 85.77 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 4 | 85.5 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 3 | 84.36 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 20 | 83.32 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 20 | 83.21 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 20 | 83.16 |
| (1,148) | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 1:23:B:GLN:N | 6 | 82.37 |
| (1,234) | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 1:23:C:GLN:N | 6 | 82.18 |
| (1,320) | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 1:23:D:GLN:N | 6 | 82.11 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 20 | 81.91 |
| (1,62) | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 1:23:A:GLN:N | 6 | 81.85 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 4 | 81.43 |
| (1,406) | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 1:23:E:GLN:N | 6 | 81.29 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 9 | 81.29 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 20 | 81.18 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 9 | 80.72 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 9 | 80.66 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 9 | 80.36 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 9 | 80.27 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 7 | 78.51 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 7 | 78.42 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 2 | 78.41 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 7 | 78.32 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 7 | 78.26 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 20 | 78.02 |
| (1,229) | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 1:16:C:SEP:N | 13 | 77.98 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 13 | 77.89 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 7 | 77.89 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 13 | 77.84 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 13 | 77.83 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 2 | 77.75 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 13 | 77.71 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 2 | 77.61 |
| (1,401) | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 1:16:E:SEP:N | 20 | 77.47 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 2 | 77.13 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 20 | 76.95 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 2 | 76.52 |
| (1,315) | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 1:16:D:SEP:N | 20 | 75.27 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 20 | 75.21 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 20 | 75.21 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 20 | 75.01 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 20 | 74.86 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 20 | 74.66 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1 | 74.42 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1 | 74.34 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1 | 74.25 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1 | 74.21 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1 | 74.16 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 9 | 73.45 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 9 | 73.25 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 9 | 72.66 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 9 | 72.24 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 3 | 72.16 |
| (1,143) | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 1:16:B:SEP:N | 20 | 71.99 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 3 | 71.93 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 3 | 71.91 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 9 | 71.88 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 3 | 71.8 |
| (1,358) | 1:14:E:ARG:C | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 19 | 71.25 |
| (1,14) | 1:14:A:ARG:C | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 19 | 70.94 |
| (1,272) | 1:14:D:ARG:C | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 19 | 70.64 |
| (1,186) | 1:14:C:ARG:C | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 19 | 70.04 |
| (1,100) | 1:14:B:ARG:C | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 19 | 69.62 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 20 | 69.18 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 20 | 68.83 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 20 | 68.73 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 20 | 68.18 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 14 | 68.1 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 14 | 68.08 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 14 | 67.88 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 14 | 67.55 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 20 | 67.45 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 14 | 65.67 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 12 | 64.37 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 8 | 64.36 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 12 | 64.11 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 12 | 63.93 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 8 | 63.52 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 8 | 63.44 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 12 | 63.04 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 8 | 62.93 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 8 | 62.39 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 9 | 61.12 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 12 | 60.32 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 20 | 60.27 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 15 | 59.52 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 9 | 59.04 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 20 | 58.89 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 20 | 58.84 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 9 | 58.74 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 9 | 58.48 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 20 | 58.36 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 20 | 58.35 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 15 | 57.79 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 15 | 57.6 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 9 | 57.03 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 15 | 56.73 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 15 | 56.63 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 2 | 55.83 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 2 | 55.78 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 2 | 55.64 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 2 | 55.62 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 2 | 54.49 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 1 | 54.45 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 1 | 54.08 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 1 | 53.52 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 1 | 53.38 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 2 | 53.33 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 1 | 53.18 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 2 | 52.74 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 2 | 52.56 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 2 | 52.37 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 2 | 51.99 |
| (1,272) | 1:14:D:ARG:C | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 4 | 51.53 |
| (1,14) | 1:14:A:ARG:C | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 4 | 51.31 |
| (1,358) | 1:14:E:ARG:C | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 4 | 51.25 |
| (1,100) | 1:14:B:ARG:C | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 4 | 51.12 |
| (1,186) | 1:14:C:ARG:C | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 4 | 49.88 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 3 | 49.0 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 3 | 48.35 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 3 | 48.08 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 3 | 47.77 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 3 | 47.53 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 18 | 47.19 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 18 | 47.13 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 7 | 45.67 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 7 | 45.16 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 7 | 45.0 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 18 | 44.74 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 7 | 44.58 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 7 | 44.56 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 18 | 44.55 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 12 | 44.14 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 12 | 44.09 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 12 | 43.85 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 10 | 42.7 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 5 | 42.63 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 10 | 42.58 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 5 | 42.56 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 5 | 42.56 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 10 | 42.54 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 5 | 42.48 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 5 | 42.44 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 5 | 42.38 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 5 | 42.27 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 11 | 42.19 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 11 | 42.13 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 10 | 42.06 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 11 | 42.04 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 5 | 41.85 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 5 | 41.84 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 18 | 41.8 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 16 | 41.78 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 16 | 41.72 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 5 | 41.58 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 19 | 41.1 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 12 | 41.07 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 11 | 40.76 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 19 | 40.69 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 19 | 40.62 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 12 | 40.41 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 19 | 40.28 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 19 | 39.79 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 16 | 39.62 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 16 | 39.31 |
| (1,100) | 1:14:B:ARG:C | 1:15:B:ALA:N | 1:15:B:ALA:CA | 1:15:B:ALA:C | 2 | 38.6 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 16 | 38.44 |
| (1,272) | 1:14:D:ARG:C | 1:15:D:ALA:N | 1:15:D:ALA:CA | 1:15:D:ALA:C | 2 | 36.82 |
| (1,14) | 1:14:A:ARG:C | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 2 | 36.82 |
| (1,358) | 1:14:E:ARG:C | 1:15:E:ALA:N | 1:15:E:ALA:CA | 1:15:E:ALA:C | 2 | 36.67 |
| (1,186) | 1:14:C:ARG:C | 1:15:C:ALA:N | 1:15:C:ALA:CA | 1:15:C:ALA:C | 2 | 36.64 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 9 | 35.43 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 9 | 35.37 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 9 | 35.25 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 9 | 35.1 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 9 | 35.08 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 13 | 32.74 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 13 | 32.71 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 13 | 32.64 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 13 | 32.56 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 13 | 32.51 |
| (1,57) | 1:15:A:ALA:N | 1:15:A:ALA:CA | 1:15:A:ALA:C | 1:16:A:SEP:N | 10 | 32.12 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 18 | 31.07 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 10 | 30.93 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 18 | 30.34 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 18 | 30.16 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 18 | 29.45 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 18 | 29.28 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 8 | 28.29 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 8 | 28.28 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 8 | 28.2 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 8 | 28.14 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 8 | 28.03 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 20 | 27.77 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 20 | 27.59 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 20 | 27.42 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 20 | 27.22 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 20 | 26.86 |
| (1,320) | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 1:23:D:GLN:N | 4 | 25.57 |
| (1,406) | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 1:23:E:GLN:N | 4 | 24.26 |
| (1,62) | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 1:23:A:GLN:N | 4 | 24.09 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,148) | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 1:23:B:GLN:N | 4 | 24.04 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 8 | 23.91 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 11 | 23.86 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 8 | 23.67 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 8 | 23.54 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 8 | 23.5 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 8 | 22.82 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 4 | 22.21 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 12 | 22.18 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 4 | 22.12 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 4 | 22.11 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 4 | 22.06 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 4 | 21.91 |
| (1,357) | 1:13:E:ARG:C | 1:14:E:ARG:N | 1:14:E:ARG:CA | 1:14:E:ARG:C | 13 | 21.83 |
| (1,185) | 1:13:C:ARG:C | 1:14:C:ARG:N | 1:14:C:ARG:CA | 1:14:C:ARG:C | 13 | 21.76 |
| (1,271) | 1:13:D:ARG:C | 1:14:D:ARG:N | 1:14:D:ARG:CA | 1:14:D:ARG:C | 13 | 21.73 |
| (1,234) | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 1:23:C:GLN:N | 12 | 21.71 |
| (1,13) | 1:13:A:ARG:C | 1:14:A:ARG:N | 1:14:A:ARG:CA | 1:14:A:ARG:C | 13 | 21.7 |
| (1,99) | 1:13:B:ARG:C | 1:14:B:ARG:N | 1:14:B:ARG:CA | 1:14:B:ARG:C | 13 | 21.57 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 12 | 21.47 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1 | 21.11 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 12 | 21.08 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1 | 20.87 |
| (1,234) | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 1:23:C:GLN:N | 4 | 20.83 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1 | 20.8 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 15 | 20.66 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1 | 20.56 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1 | 20.4 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 13 | 20.38 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 12 | 20.24 |
| (1,406) | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 1:23:E:GLN:N | 12 | 20.11 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 12 | 19.86 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 17 | 19.73 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 12 | 19.69 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 12 | 19.66 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 1 | 19.57 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 6 | 19.56 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 7 | 19.5 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 12 | 19.45 |
| (1,62) | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 1:23:A:GLN:N | 12 | 19.41 |
| (1,320) | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 1:23:D:GLN:N | 12 | 19.3 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 12 | 19.3 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 6 | 19.28 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 15 | 19.16 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 19 | 19.01 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 12 | 18.89 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 2 | 18.84 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 2 | 18.83 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 2 | 18.81 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 2 | 18.8 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 19 | 18.76 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 14 | 18.74 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 10 | 18.72 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 10 | 18.67 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 10 | 18.6 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 10 | 18.59 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 15 | 18.5 |
| (1,73) | 1:37:A:LEU:N | 1:37:A:LEU:CA | 1:37:A:LEU:C | 1:38:A:ILE:N | 19 | 18.45 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 19 | 18.31 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 19 | 18.29 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 20 | 18.29 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 20 | 18.27 |
| (1,148) | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 1:23:B:GLN:N | 12 | 18.25 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 8 | 18.18 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 11 | 18.04 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 8 | 17.94 |
| (1,331) | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 1:38:D:ILE:N | 19 | 17.92 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 2 | 17.91 |
| (1,331) | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 1:38:D:ILE:N | 11 | 17.88 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 15 | 17.88 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 15 | 17.87 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 8 | 17.87 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 15 | 17.8 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 8 | 17.79 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 8 | 17.76 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 15 | 17.73 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 18 | 17.71 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 16 | 17.65 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 2 | 17.51 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 15 | 17.51 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 10 | 17.41 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 18 | 17.26 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 19 | 17.17 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 15 | 17.14 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 18 | 17.12 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 15 | 17.11 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 18 | 17.09 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 19 | 17.04 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 13 | 16.96 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 14 | 16.92 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 15 | 16.9 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 15 | 16.78 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 15 | 16.78 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 3 | 16.73 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 11 | 16.61 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 4 | 16.46 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 2 | 16.42 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 19 | 16.23 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 7 | 16.14 |
| (1,31) | 1:37:A:LEU:C | 1:38:A:ILE:N | 1:38:A:ILE:CA | 1:38:A:ILE:C | 19 | 16.1 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 16 | 16.08 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1 | 16.03 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1 | 15.93 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 5 | 15.83 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1 | 15.79 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1 | 15.75 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 8 | 15.74 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1 | 15.66 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 18 | 15.63 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 19 | 15.62 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 5 | 15.56 |
| (1,245) | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 1:38:C:ILE:N | 9 | 15.55 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 3 | 15.51 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 1 | 15.42 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 20 | 15.39 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 10 | 15.33 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 17 | 15.3 |
| (1,429) | 1:50:E:MET:N | 1:50:E:MET:CA | 1:50:E:MET:C | 1:51:E:LEU:N | 3 | 15.29 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 8 | 15.26 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 20 | 15.18 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 18 | 15.17 |
| (1,31) | 1:37:A:LEU:C | 1:38:A:ILE:N | 1:38:A:ILE:CA | 1:38:A:ILE:C | 5 | 15.01 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 3 | 14.91 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 17 | 14.85 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 20 | 14.82 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 19 | 14.82 |
| (1,85) | 1:50:A:MET:N | 1:50:A:MET:CA | 1:50:A:MET:C | 1:51:A:LEU:N | 3 | 14.82 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 6 | 14.78 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 15 | 14.78 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 3 | 14.72 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 11 | 14.68 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 14 | 14.61 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 3 | 14.57 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 11 | 14.48 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 11 | 14.33 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 11 | 14.28 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 15 | 14.24 |
| (1,73) | 1:37:A:LEU:N | 1:37:A:LEU:CA | 1:37:A:LEU:C | 1:38:A:ILE:N | 5 | 14.22 |
| (1,289) | 1:37:D:LEU:C | 1:38:D:ILE:N | 1:38:D:ILE:CA | 1:38:D:ILE:C | 11 | 14.21 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 11 | 14.21 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 4 | 14.2 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 20 | 14.2 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 15 | 14.16 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 13 | 14.11 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 20 | 14.1 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 15 | 14.04 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 2 | 14.03 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 20 | 14.01 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 17 | 13.93 |
| (1,289) | 1:37:D:LEU:C | 1:38:D:ILE:N | 1:38:D:ILE:CA | 1:38:D:ILE:C | 19 | 13.91 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 18 | 13.86 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 15 | 13.83 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 15 | 13.81 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 18 | 13.77 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 18 | 13.73 |
| (1,117) | 1:37:B:LEU:C | 1:38:B:ILE:N | 1:38:B:ILE:CA | 1:38:B:ILE:C | 9 | 13.71 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 11 | 13.68 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 11 | 13.64 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 20 | 13.63 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 11 | 13.63 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 20 | 13.62 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 10 | 13.62 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 9 | 13.34 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 20 | 13.32 |
| (1,159) | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 1:38:B:ILE:N | 9 | 13.24 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 6 | 13.11 |
| (1,417) | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 1:38:E:ILE:N | 3 | 13.07 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 15 | 12.88 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 15 | 12.88 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 17 | 12.79 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 11 | 12.74 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 17 | 12.74 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 7 | 12.72 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 12 | 12.72 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 7 | 12.71 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 11 | 12.61 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 17 | 12.6 |
| (1,203) | 1:37:C:LEU:C | 1:38:C:ILE:N | 1:38:C:ILE:CA | 1:38:C:ILE:C | 14 | 12.53 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 13 | 12.5 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 6 | 12.49 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 13 | 12.45 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 6 | 12.39 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 20 | 12.38 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 16 | 12.3 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 20 | 12.23 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 12 | 12.23 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 20 | 12.2 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 13 | 12.19 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 13 | 12.11 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 12 | 12.1 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 4 | 12.08 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 20 | 11.91 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 12 | 11.9 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 12 | 11.9 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 12 | 11.89 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 6 | 11.88 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 20 | 11.85 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 6 | 11.82 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 13 | 11.82 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 6 | 11.78 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 12 | 11.76 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 12 | 11.74 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 4 | 11.71 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 4 | 11.7 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 4 | 11.69 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 4 | 11.65 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 12 | 11.65 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 12 | 11.59 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 6 | 11.53 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 6 | 11.51 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 12 | 11.5 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 12 | 11.48 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 12 | 11.47 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 2 | 11.47 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 12 | 11.45 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 4 | 11.38 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 4 | 11.37 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 4 | 11.36 |
| (1,232) | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1:19:C:GLU:N | 19 | 11.35 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 10 | 11.27 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 10 | 11.25 |
| (1,318) | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1:19:D:GLU:N | 19 | 11.25 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 20 | 11.25 |
| (1,404) | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1:19:E:GLU:N | 19 | 11.21 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 4 | 11.19 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 4 | 11.18 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 1 | 11.15 |
| (1,60) | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1:19:A:GLU:N | 19 | 11.14 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 20 | 11.13 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 4 | 11.13 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 11 | 10.9 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 1 | 10.79 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 4 | 10.73 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 4 | 10.72 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 20 | 10.7 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 4 | 10.62 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 9 | 10.61 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 9 | 10.61 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 14 | 10.6 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 9 | 10.52 |
| (1,375) | 1:37:E:LEU:C | 1:38:E:ILE:N | 1:38:E:ILE:CA | 1:38:E:ILE:C | 3 | 10.51 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 1 | 10.51 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 6 | 10.47 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 6 | 10.41 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 1 | 10.39 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 9 | 10.32 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 9 | 10.31 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 8 | 10.25 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 1 | 10.25 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 4 | 10.24 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 15 | 10.21 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 6 | 10.16 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 15 | 10.14 |
| (1,273) | 1:15:D:ALA:C | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 5 | 10.08 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 8 | 10.02 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 15 | 10.01 |
| (1,146) | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1:19:B:GLU:N | 19 | 9.98 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 1 | 9.95 |
| (1,101) | 1:15:B:ALA:C | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 5 | 9.91 |
| (1,187) | 1:15:C:ALA:C | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 5 | 9.87 |
| (1,15) | 1:15:A:ALA:C | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 5 | 9.87 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 8 | 9.83 |
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 12 | 9.83 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 1 | 9.8 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 2 | 9.79 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 2 | 9.77 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 2 | 9.76 |
| (1,359) | 1:15:E:ALA:C | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 5 | 9.69 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 2 | 9.68 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 14 | 9.59 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 3 | 9.58 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 8 | 9.27 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1 | 9.25 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1 | 9.14 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1 | 9.11 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1 | 9.11 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 6 | 8.9 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1 | 8.87 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 5 | 8.83 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 5 | 8.81 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 5 | 8.73 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 5 | 8.71 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 6 | 8.6 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 16 | 8.51 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 5 | 8.49 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 14 | 8.46 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 6 | 8.44 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 16 | 8.44 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 17 | 8.44 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 16 | 8.24 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 6 | 8.17 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 4 | 8.14 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 17 | 8.07 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 17 | 8.05 |
| (1,202) | 1:36:C:CYS:C | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 14 | 8.04 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 17 | 7.89 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 16 | 7.84 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 20 | 7.78 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 16 | 7.75 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 16 | 7.69 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 16 | 7.64 |
| (1,25) | 1:31:A:LEU:C | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1 | 7.61 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 3 | 7.55 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 14 | 7.55 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 6 | 7.54 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 1 | 7.53 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 5 | 7.53 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 20 | 7.52 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 4 | 7.48 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 12 | 7.41 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 20 | 7.37 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 16 | 7.35 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 4 | 7.25 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 3 | 7.23 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 11 | 7.22 |
| (1,288) | 1:36:D:CYS:C | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 11 | 7.19 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 4 | 7.19 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 12 | 7.17 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 3 | 7.16 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 3 | 7.13 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 4 | 7.11 |
| (1,202) | 1:36:C:CYS:C | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 20 | 7.1 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 4 | 7.07 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 15 | 7.07 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 12 | 7.06 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 1 | 7.05 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 11 | 7.05 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 16 | 7.05 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 4 | 7.04 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 17 | 7.03 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 4 | 6.96 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 20 | 6.95 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 11 | 6.95 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 14 | 6.94 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 1 | 6.93 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 17 | 6.89 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 12 | 6.88 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 12 | 6.88 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 13 | 6.87 |
| (1,369) | 1:31:E:LEU:C | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1 | 6.85 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 20 | 6.82 |
| (1,197) | 1:31:C:LEU:C | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1 | 6.8 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 17 | 6.79 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 13 | 6.75 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 13 | 6.75 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 1 | 6.74 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 16 | 6.72 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 17 | 6.67 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 11 | 6.66 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 13 | 6.65 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 11 | 6.64 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 13 | 6.64 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 4 | 6.62 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 17 | 6.62 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 10 | 6.59 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 10 | 6.53 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 17 | 6.5 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 10 | 6.47 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 14 | 6.46 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 10 | 6.45 |
| (1,197) | 1:31:C:LEU:C | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 4 | 6.39 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 2 | 6.38 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 17 | 6.37 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 17 | 6.35 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 2 | 6.35 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 3 | 6.34 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 2 | 6.33 |
| (1,369) | 1:31:E:LEU:C | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 4 | 6.32 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 2 | 6.31 |
| (1,111) | 1:31:B:LEU:C | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 4 | 6.27 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 17 | 6.26 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 1 | 6.23 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 3 | 6.16 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 11 | 6.16 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 2 | 6.09 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 3 | 6.09 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 15 | 6.08 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 13 | 6.08 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 13 | 6.08 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 5 | 6.07 |
| (1,25) | 1:31:A:LEU:C | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 4 | 6.07 |
| (1,283) | 1:31:D:LEU:C | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1 | 6.05 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 9 | 6.02 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 5 | 5.98 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 13 | 5.98 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 13 | 5.96 |
| (1,283) | 1:31:D:LEU:C | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 4 | 5.94 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 13 | 5.94 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 20 | 5.9 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 9 | 5.9 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 9 | 5.85 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 9 | 5.78 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 17 | 5.78 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 5 | 5.76 |
| (1,111) | 1:31:B:LEU:C | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1 | 5.7 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 3 | 5.68 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 5 | 5.6 |
| (1,231) | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1:18:C:ILE:N | 16 | 5.6 |
| (1,403) | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1:18:E:ILE:N | 16 | 5.59 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 17 | 5.57 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 17 | 5.55 |
| (1,317) | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1:18:D:ILE:N | 16 | 5.47 |
| (1,59) | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1:18:A:ILE:N | 16 | 5.47 |
| (1,145) | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1:18:B:ILE:N | 16 | 5.46 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 5 | 5.46 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 9 | 5.39 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 4 | 5.37 |
| (1,161) | 1:39:B:LEU:N | 1:39:B:LEU:CA | 1:39:B:LEU:C | 1:40:B:ILE:N | 7 | 5.33 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 1 | 5.26 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 15 | 5.23 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 2 | 5.12 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 1 | 5.11 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 1 | 5.07 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 10 | 5.07 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 1 | 5.05 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 17 | 5.05 |
| (1,283) | 1:31:D:LEU:C | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 20 | 4.99 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 1 | 4.98 |
| (1,63) | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 1:24:A:ALA:N | 18 | 4.91 |
| (1,197) | 1:31:C:LEU:C | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 20 | 4.8 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 16 | 4.78 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 14 | 4.77 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 17 | 4.74 |
| (1,407) | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 1:24:E:ALA:N | 18 | 4.73 |
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 15 | 4.67 |
| (1,111) | 1:31:B:LEU:C | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 20 | 4.62 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 2 | 4.54 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 3 | 4.5 |
| (1,244) | 1:36:C:CYS:N | 1:36:C:CYS:CA | 1:36:C:CYS:C | 1:37:C:LEU:N | 14 | 4.45 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 17 | 4.43 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 3 | 4.4 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 3 | 4.35 |
| (1,161) | 1:39:B:LEU:N | 1:39:B:LEU:CA | 1:39:B:LEU:C | 1:40:B:ILE:N | 8 | 4.35 |
| (1,105) | 1:21:B:PRO:C | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 14 | 4.32 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 17 | 4.31 |
| (1,369) | 1:31:E:LEU:C | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 20 | 4.3 |
| (1,194) | 1:28:C:LEU:C | 1:29:C:GLN:N | 1:29:C:GLN:CA | 1:29:C:GLN:C | 7 | 4.3 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 13 | 4.3 |
| (1,149) | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 1:24:B:ALA:N | 18 | 4.28 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 13 | 4.27 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 3 | 4.26 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 3 | 4.26 |
| (1,416) | 1:36:E:CYS:N | 1:36:E:CYS:CA | 1:36:E:CYS:C | 1:37:E:LEU:N | 11 | 4.22 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 13 | 4.22 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 16 | 4.17 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 10 | 4.13 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 9 | 4.12 |
| (1,191) | 1:21:C:PRO:C | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 14 | 4.12 |
| (1,161) | 1:39:B:LEU:N | 1:39:B:LEU:CA | 1:39:B:LEU:C | 1:40:B:ILE:N | 9 | 4.09 |
| (1,108) | 1:28:B:LEU:C | 1:29:B:GLN:N | 1:29:B:GLN:CA | 1:29:B:GLN:C | 7 | 4.07 |
| (1,19) | 1:21:A:PRO:C | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 14 | 4.07 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 13 | 4.06 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 16 | 4.03 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 3 | 4.02 |
| (1,416) | 1:36:E:CYS:N | 1:36:E:CYS:CA | 1:36:E:CYS:C | 1:37:E:LEU:N | 5 | 4.01 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 10 | 4.01 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 16 | 3.99 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 13 | 3.96 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 4 | 3.92 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 16 | 3.9 |
| (1,321) | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 1:24:D:ALA:N | 18 | 3.88 |
| (1,116) | 1:36:B:CYS:C | 1:37:B:LEU:N | 1:37:B:LEU:CA | 1:37:B:LEU:C | 14 | 3.87 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 4 | 3.85 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 6 | 3.83 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 4 | 3.82 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 9 | 3.77 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 9 | 3.75 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 4 | 3.74 |
| (1,262) | 1:4:D:VAL:C | 1:5:D:GLN:N | 1:5:D:GLN:CA | 1:5:D:GLN:C | 13 | 3.73 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 6 | 3.73 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 9 | 3.69 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 6 | 3.69 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 6 | 3.69 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 4 | 3.67 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 9 | 3.67 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 3 | 3.66 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 6 | 3.64 |
| (1,146) | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 1:19:B:GLU:N | 11 | 3.63 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 4 | 3.62 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 14 | 3.61 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 10 | 3.6 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 9 | 3.6 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 4 | 3.6 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 6 | 3.59 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 6 | 3.58 |
| (1,429) | 1:50:E:MET:N | 1:50:E:MET:CA | 1:50:E:MET:C | 1:51:E:LEU:N | 2 | 3.55 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 6 | 3.54 |
| (1,25) | 1:31:A:LEU:C | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 20 | 3.53 |
| (1,366) | 1:28:E:LEU:C | 1:29:E:GLN:N | 1:29:E:GLN:CA | 1:29:E:GLN:C | 7 | 3.51 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 14 | 3.51 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 6 | 3.5 |
| (1,22) | 1:28:A:LEU:C | 1:29:A:GLN:N | 1:29:A:GLN:CA | 1:29:A:GLN:C | 7 | 3.5 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 14 | 3.5 |
| (1,404) | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 1:19:E:GLU:N | 11 | 3.49 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 4 | 3.48 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 14 | 3.44 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 4 | 3.42 |
| (1,277) | 1:21:D:PRO:C | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 14 | 3.39 |
| (1,232) | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 1:19:C:GLU:N | 11 | 3.35 |
| (1,148) | 1:22:B:GLN:N | 1:22:B:GLN:CA | 1:22:B:GLN:C | 1:23:B:GLN:N | 14 | 3.32 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 4 | 3.31 |
| (1,330) | 1:36:D:CYS:N | 1:36:D:CYS:CA | 1:36:D:CYS:C | 1:37:D:LEU:N | 11 | 3.29 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 10 | 3.29 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 14 | 3.25 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 6 | 3.23 |
| (1,154) | 1:32:B:PHE:N | 1:32:B:PHE:CA | 1:32:B:PHE:C | 1:33:B:ILE:N | 9 | 3.22 |
| (1,363) | 1:21:E:PRO:C | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 14 | 3.19 |
| (1,280) | 1:28:D:LEU:C | 1:29:D:GLN:N | 1:29:D:GLN:CA | 1:29:D:GLN:C | 7 | 3.19 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 17 | 3.19 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 10 | 3.16 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 5 | 3.14 |
| (1,176) | 1:4:C:VAL:C | 1:5:C:GLN:N | 1:5:C:GLN:CA | 1:5:C:GLN:C | 13 | 3.14 |
| (1,106) | 1:22:B:GLN:C | 1:23:B:GLN:N | 1:23:B:GLN:CA | 1:23:B:GLN:C | 5 | 3.1 |
| (1,161) | 1:39:B:LEU:N | 1:39:B:LEU:CA | 1:39:B:LEU:C | 1:40:B:ILE:N | 4 | 3.07 |
| (1,244) | 1:36:C:CYS:N | 1:36:C:CYS:CA | 1:36:C:CYS:C | 1:37:C:LEU:N | 20 | 3.06 |
| (1,235) | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 1:24:C:ALA:N | 18 | 3.03 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 5 | 3.03 |
| (1,192) | 1:22:C:GLN:C | 1:23:C:GLN:N | 1:23:C:GLN:CA | 1:23:C:GLN:C | 5 | 2.98 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 5 | 2.93 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 4 | 2.91 |
| (1,188) | 1:16:C:SEP:C | 1:17:C:THR:N | 1:17:C:THR:CA | 1:17:C:THR:C | 1 | 2.9 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 15 | 2.87 |
| (1,406) | 1:22:E:GLN:N | 1:22:E:GLN:CA | 1:22:E:GLN:C | 1:23:E:GLN:N | 14 | 2.83 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 20 | 2.83 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 5 | 2.83 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 8 | 2.82 |
| (1,360) | 1:16:E:SEP:C | 1:17:E:THR:N | 1:17:E:THR:CA | 1:17:E:THR:C | 1 | 2.79 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 15 | 2.79 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 4 | 2.77 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 8 | 2.76 |
| (1,240) | 1:32:C:PHE:N | 1:32:C:PHE:CA | 1:32:C:PHE:C | 1:33:C:ILE:N | 9 | 2.75 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 6 | 2.71 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 1 | 2.71 |
| (1,20) | 1:22:A:GLN:C | 1:23:A:GLN:N | 1:23:A:GLN:CA | 1:23:A:GLN:C | 5 | 2.71 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 6 | 2.7 |
| (1,318) | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 1:19:D:GLU:N | 11 | 2.67 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 8 | 2.64 |
| (1,23) | 1:29:A:GLN:C | 1:30:A:ASN:N | 1:30:A:ASN:CA | 1:30:A:ASN:C | 13 | 2.64 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 8 | 2.6 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 3 | 2.6 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 15 | 2.58 |
| (1,68) | 1:32:A:PHE:N | 1:32:A:PHE:CA | 1:32:A:PHE:C | 1:33:A:ILE:N | 9 | 2.56 |
| (1,144) | 1:16:B:SEP:N | 1:16:B:SEP:CA | 1:16:B:SEP:C | 1:17:B:THR:N | 13 | 2.52 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 18 | 2.51 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 20 | 2.5 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 3 | 2.5 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 5 | 2.47 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 16 | 2.45 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 16 | 2.42 |
| (1,16) | 1:16:A:SEP:C | 1:17:A:THR:N | 1:17:A:THR:CA | 1:17:A:THR:C | 1 | 2.4 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 8 | 2.39 |
| (1,326) | 1:32:D:PHE:N | 1:32:D:PHE:CA | 1:32:D:PHE:C | 1:33:D:ILE:N | 9 | 2.37 |
| (1,58) | 1:16:A:SEP:N | 1:16:A:SEP:CA | 1:16:A:SEP:C | 1:17:A:THR:N | 13 | 2.37 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 6 | 2.35 |
| (1,90) | 1:4:B:VAL:C | 1:5:B:GLN:N | 1:5:B:GLN:CA | 1:5:B:GLN:C | 13 | 2.35 |
| (1,4) | 1:4:A:VAL:C | 1:5:A:GLN:N | 1:5:A:GLN:CA | 1:5:A:GLN:C | 13 | 2.35 |
| (1,288) | 1:36:D:CYS:C | 1:37:D:LEU:N | 1:37:D:LEU:CA | 1:37:D:LEU:C | 19 | 2.34 |
| (1,109) | 1:29:B:GLN:C | 1:30:B:ASN:N | 1:30:B:ASN:CA | 1:30:B:ASN:C | 13 | 2.34 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 19 | 2.34 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 5 | 2.33 |
| (1,348) | 1:4:E:VAL:C | 1:5:E:GLN:N | 1:5:E:GLN:CA | 1:5:E:GLN:C | 13 | 2.27 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 12 | 2.27 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 12 | 2.25 |
| (1,278) | 1:22:D:GLN:C | 1:23:D:GLN:N | 1:23:D:GLN:CA | 1:23:D:GLN:C | 5 | 2.24 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 11 | 2.21 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 12 | 2.21 |
| (1,102) | 1:16:B:SEP:C | 1:17:B:THR:N | 1:17:B:THR:CA | 1:17:B:THR:C | 1 | 2.2 |
| (1,60) | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 1:19:A:GLU:N | 11 | 2.2 |
| (1,316) | 1:16:D:SEP:N | 1:16:D:SEP:CA | 1:16:D:SEP:C | 1:17:D:THR:N | 13 | 2.19 |
| (1,274) | 1:16:D:SEP:C | 1:17:D:THR:N | 1:17:D:THR:CA | 1:17:D:THR:C | 1 | 2.19 |
| (1,230) | 1:16:C:SEP:N | 1:16:C:SEP:CA | 1:16:C:SEP:C | 1:17:C:THR:N | 13 | 2.19 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 19 | 2.14 |
| (1,402) | 1:16:E:SEP:N | 1:16:E:SEP:CA | 1:16:E:SEP:C | 1:17:E:THR:N | 13 | 2.13 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 16 | 2.13 |
| (1,412) | 1:32:E:PHE:N | 1:32:E:PHE:CA | 1:32:E:PHE:C | 1:33:E:ILE:N | 9 | 2.12 |
| (1,364) | 1:22:E:GLN:C | 1:23:E:GLN:N | 1:23:E:GLN:CA | 1:23:E:GLN:C | 5 | 2.11 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 5 | 2.11 |
| (1,195) | 1:29:C:GLN:C | 1:30:C:ASN:N | 1:30:C:ASN:CA | 1:30:C:ASN:C | 13 | 2.07 |
| (1,236) | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 1:25:C:ARG:N | 11 | 2.06 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 10 | 2.06 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 12 | 2.05 |
| (1,367) | 1:29:E:GLN:C | 1:30:E:ASN:N | 1:30:E:ASN:CA | 1:30:E:ASN:C | 13 | 2.03 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 20 | 2.03 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 12 | 2.01 |
| (1,408) | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 1:25:E:ARG:N | 11 | 1.99 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 16 | 1.98 |
| (1,281) | 1:29:D:GLN:C | 1:30:D:ASN:N | 1:30:D:ASN:CA | 1:30:D:ASN:C | 13 | 1.96 |
| (1,387) | 1:50:E:MET:C | 1:51:E:LEU:N | 1:51:E:LEU:CA | 1:51:E:LEU:C | 11 | 1.95 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 3 | 1.94 |
| (1,262) | 1:4:D:VAL:C | 1:5:D:GLN:N | 1:5:D:GLN:CA | 1:5:D:GLN:C | 3 | 1.93 |
| (1,301) | 1:50:D:MET:C | 1:51:D:LEU:N | 1:51:D:LEU:CA | 1:51:D:LEU:C | 19 | 1.9 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 11 | 1.89 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 7 | 1.85 |
| (1,362) | 1:18:E:ILE:C | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 9 | 1.85 |
| (1,75) | 1:39:A:LEU:N | 1:39:A:LEU:CA | 1:39:A:LEU:C | 1:40:A:ILE:N | 6 | 1.85 |
| (1,189) | 1:17:C:THR:C | 1:18:C:ILE:N | 1:18:C:ILE:CA | 1:18:C:ILE:C | 7 | 1.82 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 3 | 1.8 |
| (1,322) | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 1:25:D:ARG:N | 11 | 1.78 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 2 | 1.73 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 18 | 1.73 |
| (1,103) | 1:17:B:THR:C | 1:18:B:ILE:N | 1:18:B:ILE:CA | 1:18:B:ILE:C | 7 | 1.73 |
| (1,17) | 1:17:A:THR:C | 1:18:A:ILE:N | 1:18:A:ILE:CA | 1:18:A:ILE:C | 7 | 1.71 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 19 | 1.68 |
| (1,61) | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 1:20:A:MET:N | 6 | 1.66 |
| (1,107) | 1:23:B:GLN:C | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 2 | 1.65 |
| (1,380) | 1:42:E:LEU:C | 1:43:E:LEU:N | 1:43:E:LEU:CA | 1:43:E:LEU:C | 12 | 1.63 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 11 | 1.63 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 11 | 1.62 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 4 | 1.61 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 12 | 1.6 |
| (1,233) | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 1:20:C:MET:N | 6 | 1.6 |
| (1,104) | 1:18:B:ILE:C | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 9 | 1.6 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,367) | 1:29:E:GLN:C | 1:30:E:ASN:N | 1:30:E:ASN:CA | 1:30:E:ASN:C | 12 | 1.59 |
| (1,62) | 1:22:A:GLN:N | 1:22:A:GLN:CA | 1:22:A:GLN:C | 1:23:A:GLN:N | 14 | 1.58 |
| (1,43) | 1:50:A:MET:C | 1:51:A:LEU:N | 1:51:A:LEU:CA | 1:51:A:LEU:C | 19 | 1.57 |
| (1,85) | 1:50:A:MET:N | 1:50:A:MET:CA | 1:50:A:MET:C | 1:51:A:LEU:N | 16 | 1.56 |
| (1,234) | 1:22:C:GLN:N | 1:22:C:GLN:CA | 1:22:C:GLN:C | 1:23:C:GLN:N | 14 | 1.55 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 19 | 1.55 |
| (1,319) | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 1:20:D:MET:N | 6 | 1.53 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 16 | 1.53 |
| (1,405) | 1:19:E:GLU:N | 1:19:E:GLU:CA | 1:19:E:GLU:C | 1:20:E:MET:N | 6 | 1.52 |
| (1,275) | 1:17:D:THR:C | 1:18:D:ILE:N | 1:18:D:ILE:CA | 1:18:D:ILE:C | 7 | 1.49 |
| (1,147) | 1:19:B:GLU:N | 1:19:B:GLU:CA | 1:19:B:GLU:C | 1:20:B:MET:N | 6 | 1.47 |
| (1,419) | 1:39:E:LEU:N | 1:39:E:LEU:CA | 1:39:E:LEU:C | 1:40:E:ILE:N | 13 | 1.46 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 2 | 1.45 |
| (1,129) | 1:50:B:MET:C | 1:51:B:LEU:N | 1:51:B:LEU:CA | 1:51:B:LEU:C | 16 | 1.44 |
| (1,64) | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 1:25:A:ARG:N | 11 | 1.4 |
| (1,215) | 1:50:C:MET:C | 1:51:C:LEU:N | 1:51:C:LEU:CA | 1:51:C:LEU:C | 19 | 1.39 |
| (1,361) | 1:17:E:THR:C | 1:18:E:ILE:N | 1:18:E:ILE:CA | 1:18:E:ILE:C | 7 | 1.38 |
| (1,190) | 1:18:C:ILE:C | 1:19:C:GLU:N | 1:19:C:GLU:CA | 1:19:C:GLU:C | 9 | 1.38 |
| (1,380) | 1:42:E:LEU:C | 1:43:E:LEU:N | 1:43:E:LEU:CA | 1:43:E:LEU:C | 20 | 1.34 |
| (1,30) | 1:36:A:CYS:C | 1:37:A:LEU:N | 1:37:A:LEU:CA | 1:37:A:LEU:C | 19 | 1.34 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 13 | 1.32 |
| (1,320) | 1:22:D:GLN:N | 1:22:D:GLN:CA | 1:22:D:GLN:C | 1:23:D:GLN:N | 14 | 1.31 |
| (1,276) | 1:18:D:ILE:C | 1:19:D:GLU:N | 1:19:D:GLU:CA | 1:19:D:GLU:C | 9 | 1.29 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 2 | 1.29 |
| (1,202) | 1:36:C:CYS:C | 1:37:C:LEU:N | 1:37:C:LEU:CA | 1:37:C:LEU:C | 19 | 1.28 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 18 | 1.24 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 9 | 1.24 |
| (1,18) | 1:18:A:ILE:C | 1:19:A:GLU:N | 1:19:A:GLU:CA | 1:19:A:GLU:C | 9 | 1.21 |
| (1,374) | 1:36:E:CYS:C | 1:37:E:LEU:N | 1:37:E:LEU:CA | 1:37:E:LEU:C | 13 | 1.2 |
| (1,279) | 1:23:D:GLN:C | 1:24:D:ALA:N | 1:24:D:ALA:CA | 1:24:D:ALA:C | 14 | 1.2 |
| (1,150) | 1:24:B:ALA:N | 1:24:B:ALA:CA | 1:24:B:ALA:C | 1:25:B:ARG:N | 11 | 1.2 |
| (1,4) | 1:4:A:VAL:C | 1:5:A:GLN:N | 1:5:A:GLN:CA | 1:5:A:GLN:C | 3 | 1.19 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 9 | 1.18 |
| (1,21) | 1:23:A:GLN:C | 1:24:A:ALA:N | 1:24:A:ALA:CA | 1:24:A:ALA:C | 14 | 1.17 |
| (1,365) | 1:23:E:GLN:C | 1:24:E:ALA:N | 1:24:E:ALA:CA | 1:24:E:ALA:C | 2 | 1.15 |
| (1,122) | 1:42:B:LEU:C | 1:43:B:LEU:N | 1:43:B:LEU:CA | 1:43:B:LEU:C | 16 | 1.14 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 6 | 1.13 |
| (1,294) | 1:42:D:LEU:C | 1:43:D:LEU:N | 1:43:D:LEU:CA | 1:43:D:LEU:C | 9 | 1.11 |
| (1,247) | 1:39:C:LEU:N | 1:39:C:LEU:CA | 1:39:C:LEU:C | 1:40:C:ILE:N | 14 | 1.11 |
| (1,333) | 1:39:D:LEU:N | 1:39:D:LEU:CA | 1:39:D:LEU:C | 1:40:D:ILE:N | 7 | 1.1 |
| (1,208) | 1:42:C:LEU:C | 1:43:C:LEU:N | 1:43:C:LEU:CA | 1:43:C:LEU:C | 12 | 1.07 |
| (1,36) | 1:42:A:LEU:C | 1:43:A:LEU:N | 1:43:A:LEU:CA | 1:43:A:LEU:C | 12 | 1.05 |
| (1,416) | 1:36:E:CYS:N | 1:36:E:CYS:CA | 1:36:E:CYS:C | 1:37:E:LEU:N | 20 | 1.04 |
| (1,193) | 1:23:C:GLN:C | 1:24:C:ALA:N | 1:24:C:ALA:CA | 1:24:C:ALA:C | 2 | 1.03 |