



Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 6Q44
BMRB ID : 27146
Title : Est3 telomerase subunit in the yeast Hansenula polymorpha
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Deposited on : 2018-12-05

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

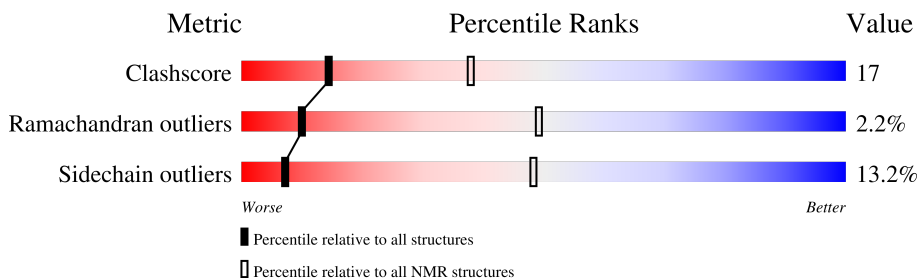
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 80%.

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



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

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 178 | |

2 Ensemble composition and analysis

This entry contains 20 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

| Well-defined (core) protein residues | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:23-A:172 (150) | 0.86 | 1 |

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 2 clusters and 3 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 2882 atoms, of which 1439 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Uncharacterized protein.

| Mol | Chain | Residues | Atoms | | | | | | Trace |
|-----|-------|----------|-------|-----|------|-----|-----|---|-------|
| | | | Total | C | H | N | O | S | |
| 1 | A | 178 | 2882 | 926 | 1439 | 249 | 261 | 7 | 0 |

There are 4 discrepancies between the modelled and reference sequences:

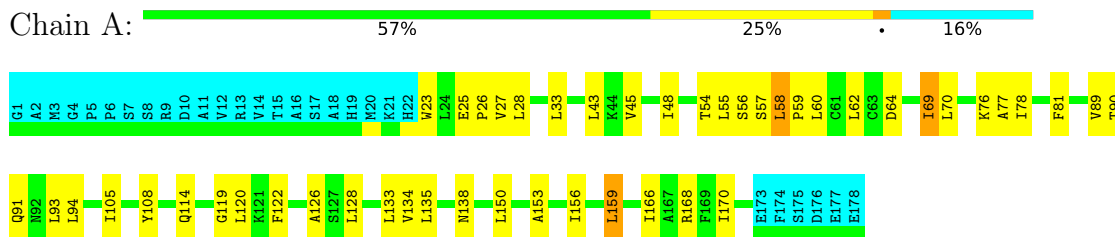
| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------------|------------|
| A | 1 | GLY | - | expression tag | UNP W1QJK4 |
| A | 2 | ALA | - | expression tag | UNP W1QJK4 |
| A | 3 | MET | - | expression tag | UNP W1QJK4 |
| A | 4 | GLY | - | expression tag | UNP W1QJK4 |

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: Uncharacterized protein

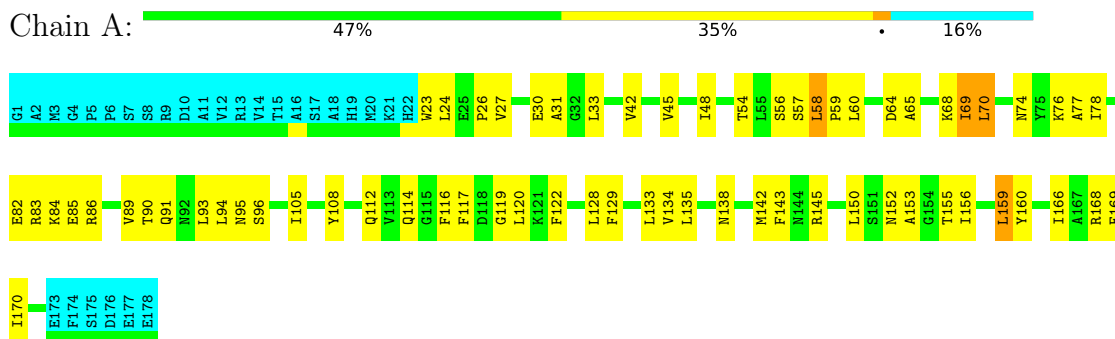


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

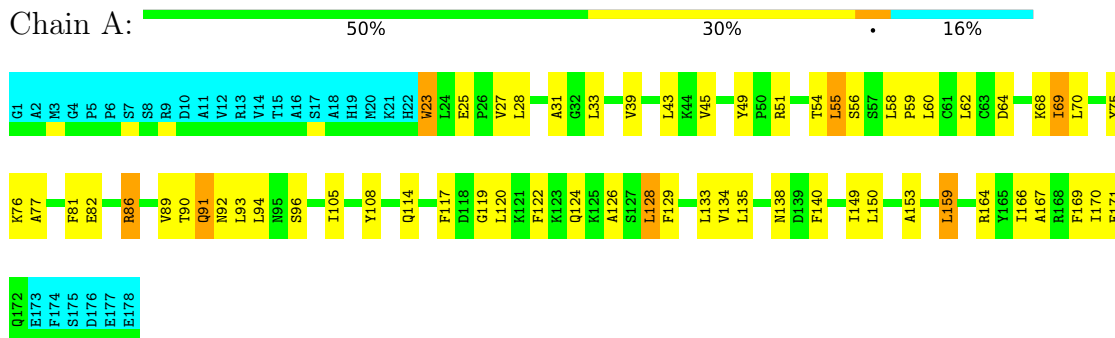
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Uncharacterized protein



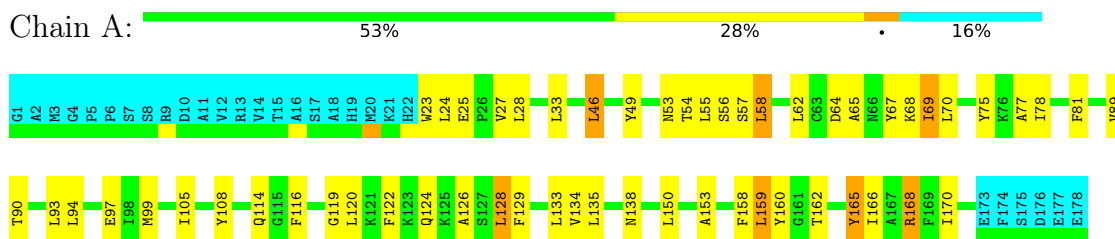
4.2.2 Score per residue for model 2

- Molecule 1: Uncharacterized protein



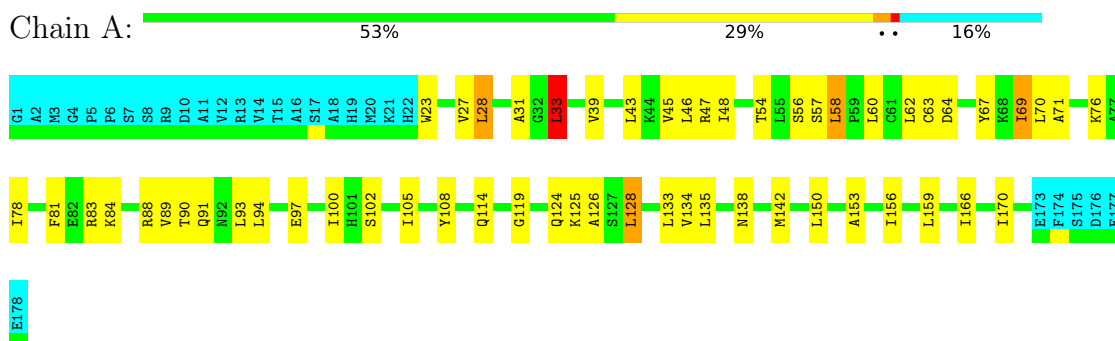
4.2.3 Score per residue for model 3

- Molecule 1: Uncharacterized protein



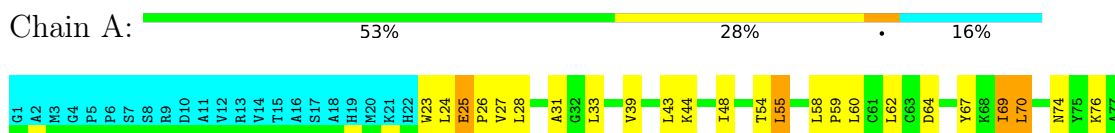
4.2.4 Score per residue for model 4

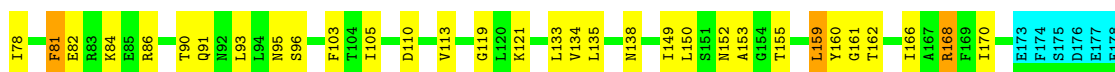
- Molecule 1: Uncharacterized protein



4.2.5 Score per residue for model 5

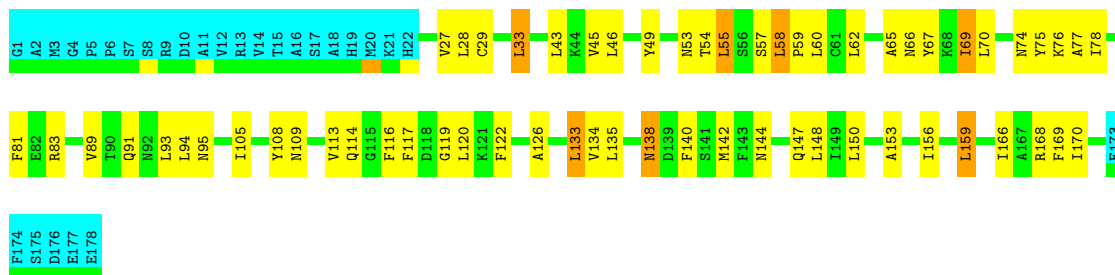
- Molecule 1: Uncharacterized protein





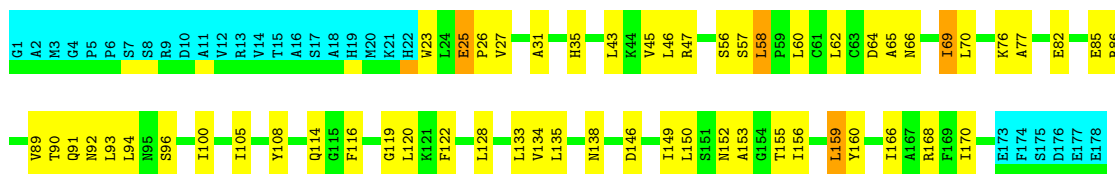
4.2.6 Score per residue for model 6

- Molecule 1: Uncharacterized protein



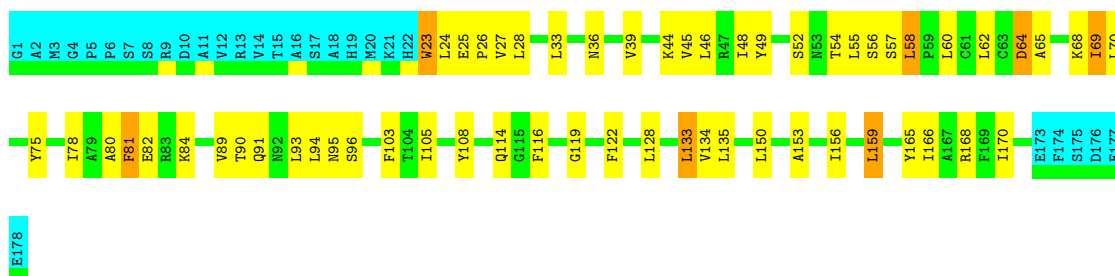
4.2.7 Score per residue for model 7

- Molecule 1: Uncharacterized protein



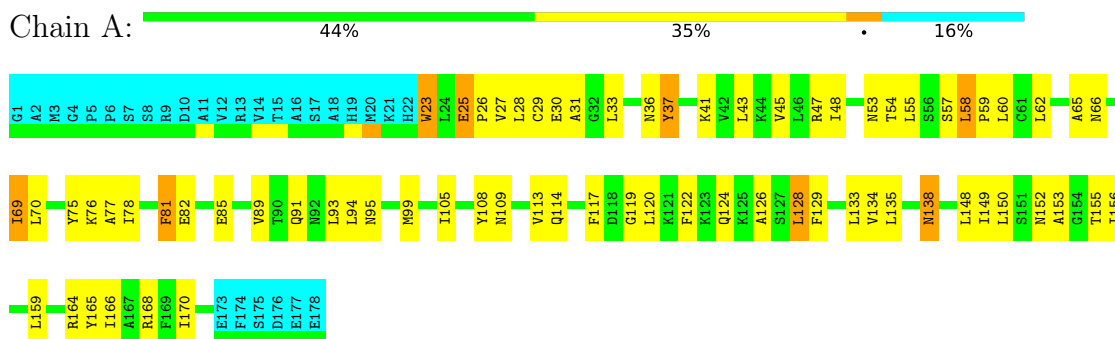
4.2.8 Score per residue for model 8

- Molecule 1: Uncharacterized protein



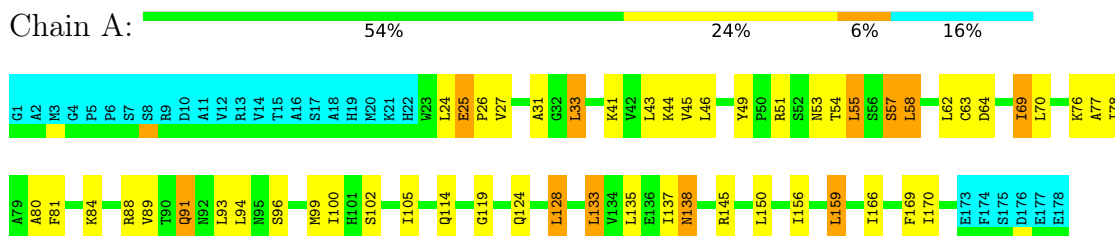
4.2.9 Score per residue for model 9

- Molecule 1: Uncharacterized protein



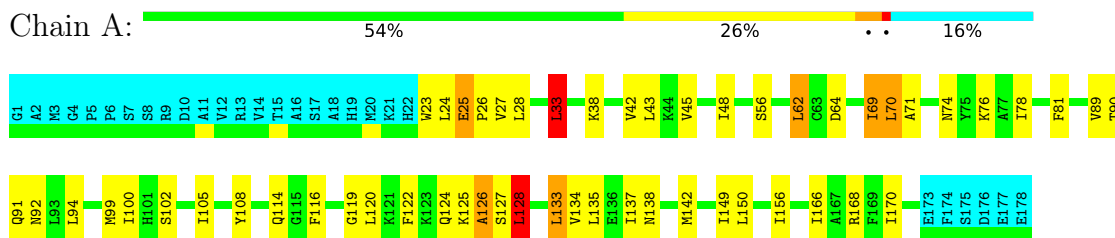
4.2.10 Score per residue for model 10

- Molecule 1: Uncharacterized protein



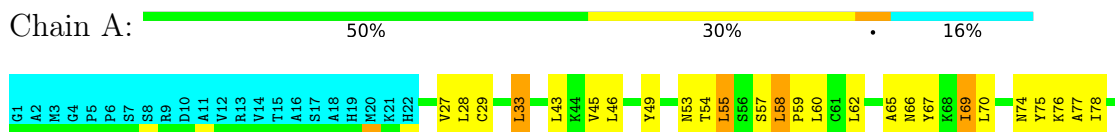
4.2.11 Score per residue for model 11

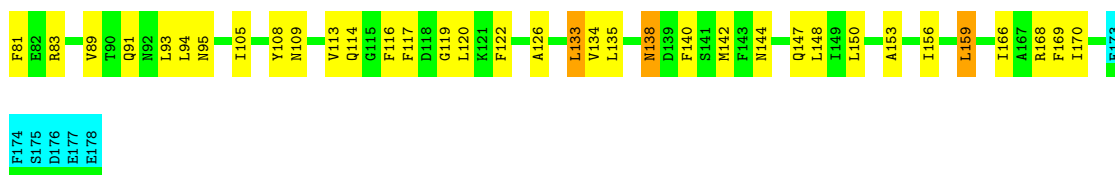
- Molecule 1: Uncharacterized protein



4.2.12 Score per residue for model 12

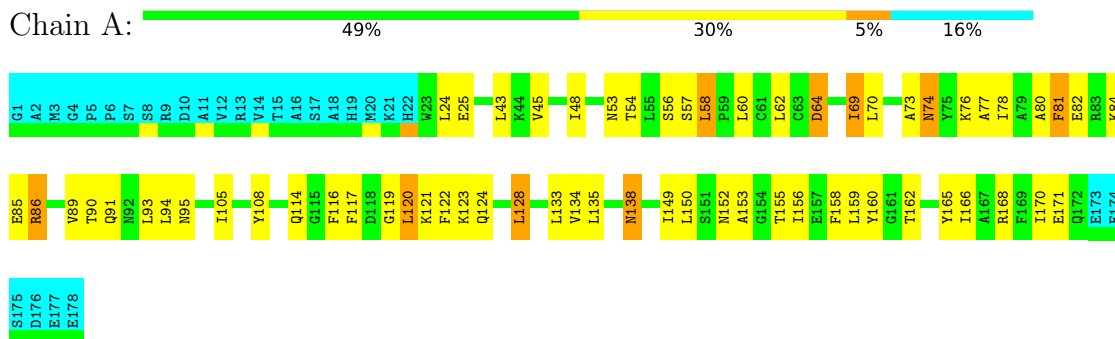
- Molecule 1: Uncharacterized protein





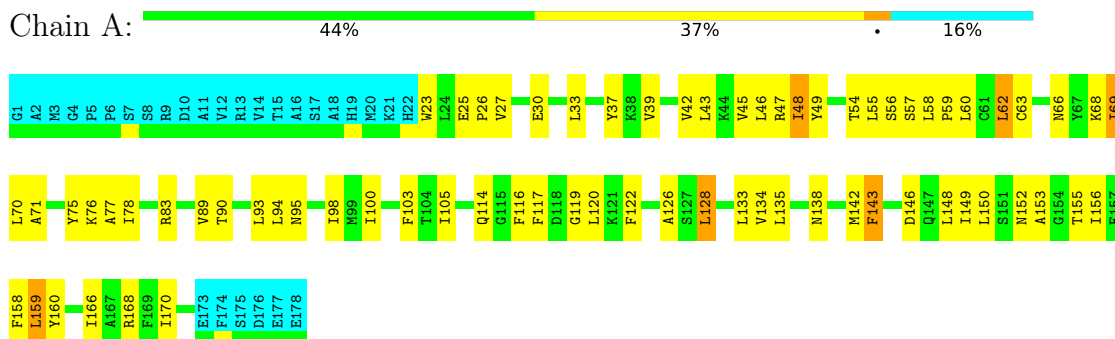
4.2.13 Score per residue for model 13

- Molecule 1: Uncharacterized protein



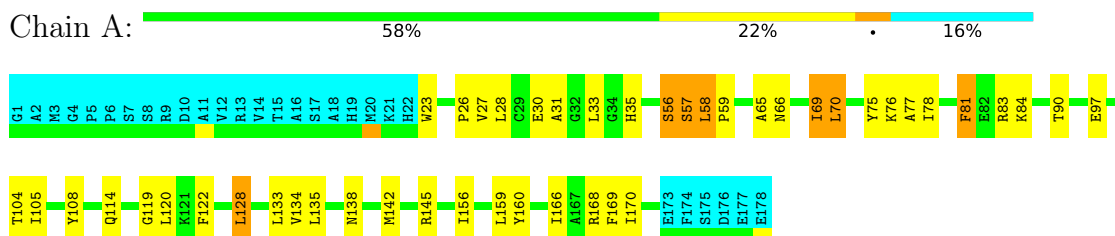
4.2.14 Score per residue for model 14

- Molecule 1: Uncharacterized protein



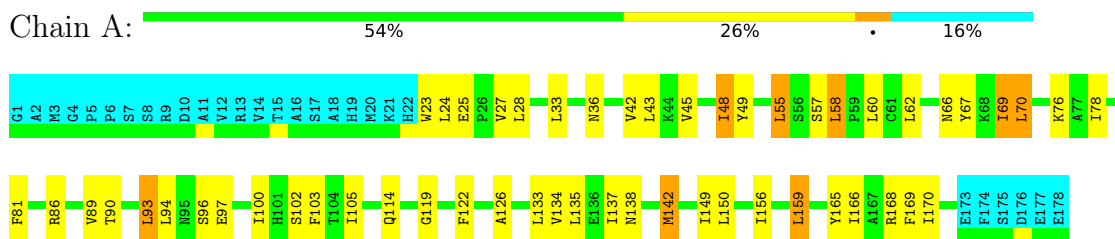
4.2.15 Score per residue for model 15

- Molecule 1: Uncharacterized protein



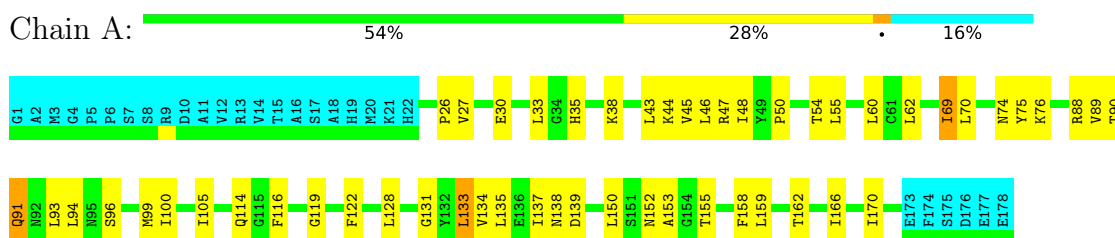
4.2.16 Score per residue for model 16

- Molecule 1: Uncharacterized protein



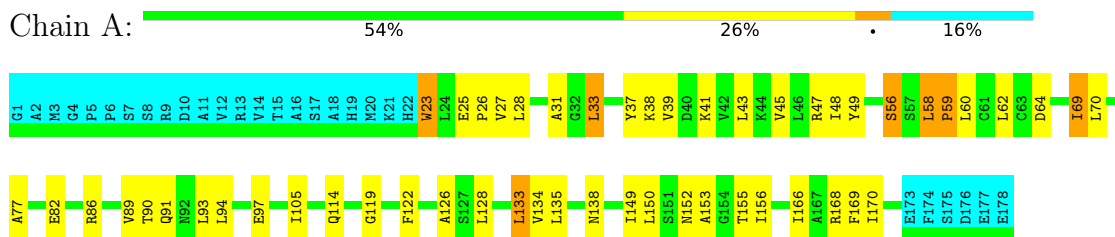
4.2.17 Score per residue for model 17

- Molecule 1: Uncharacterized protein



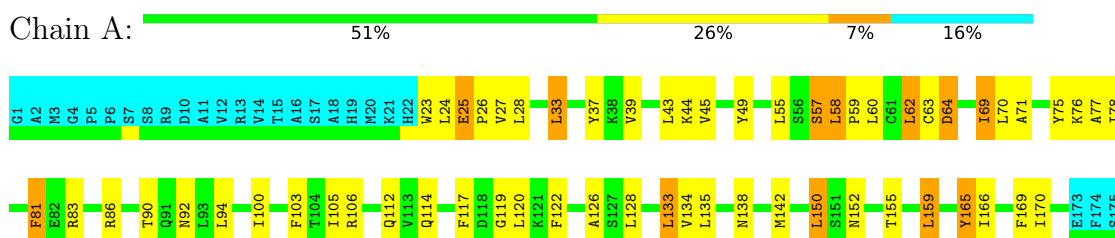
4.2.18 Score per residue for model 18

- Molecule 1: Uncharacterized protein



4.2.19 Score per residue for model 19

- Molecule 1: Uncharacterized protein



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the least restraint violations*.

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

| Software name | Classification | Version |
|---------------|-----------------------|---------|
| CNS | structure calculation | |

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

| | |
|--|----------------|
| Chemical shift file(s) | working_cs.cif |
| Number of chemical shift lists | 1 |
| Total number of shifts | 1997 |
| Number of shifts mapped to atoms | 1997 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 80% |

6 Model quality

6.1 Standard geometry

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

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 | 1234 | 1244 | 1242 | 43±7 |
| All | All | 24680 | 24880 | 24840 | 853 |

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 17.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:166:ILE:HG23 | 1:A:170:ILE:HD12 | 1.09 | 1.20 | 13 | 11 |
| 1:A:150:LEU:HD23 | 1:A:153:ALA:HB2 | 1.02 | 1.32 | 17 | 13 |
| 1:A:27:VAL:HG23 | 1:A:33:LEU:HD13 | 0.90 | 1.44 | 16 | 10 |
| 1:A:33:LEU:HD21 | 1:A:39:VAL:HG13 | 0.86 | 1.45 | 8 | 4 |
| 1:A:55:LEU:HD12 | 1:A:78:ILE:HG21 | 0.85 | 1.44 | 6 | 3 |
| 1:A:105:ILE:HD12 | 1:A:133:LEU:HD21 | 0.84 | 1.45 | 2 | 15 |
| 1:A:33:LEU:HD22 | 1:A:37:TYR:CD2 | 0.82 | 2.09 | 14 | 1 |
| 1:A:70:LEU:HD21 | 1:A:122:PHE:CZ | 0.81 | 2.11 | 17 | 10 |
| 1:A:133:LEU:HD13 | 1:A:165:TYR:CE2 | 0.80 | 2.10 | 3 | 1 |
| 1:A:55:LEU:HD12 | 1:A:78:ILE:CG2 | 0.79 | 2.07 | 6 | 3 |
| 1:A:33:LEU:HD11 | 1:A:39:VAL:HG11 | 0.78 | 1.55 | 4 | 3 |
| 1:A:49:TYR:O | 1:A:58:LEU:HD11 | 0.76 | 1.81 | 18 | 2 |
| 1:A:33:LEU:HD13 | 1:A:37:TYR:CE2 | 0.76 | 2.15 | 14 | 2 |
| 1:A:55:LEU:CD1 | 1:A:78:ILE:HG21 | 0.76 | 2.11 | 10 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:33:LEU:HD23 | 1:A:37:TYR:HB3 | 0.75 | 1.57 | 18 | 1 |
| 1:A:45:VAL:HG11 | 1:A:94:LEU:HB3 | 0.75 | 1.57 | 10 | 11 |
| 1:A:152:ASN:O | 1:A:155:THR:HG22 | 0.74 | 1.82 | 13 | 9 |
| 1:A:90:THR:HG22 | 1:A:94:LEU:HD11 | 0.74 | 1.60 | 3 | 3 |
| 1:A:33:LEU:HD13 | 1:A:37:TYR:CD2 | 0.74 | 2.18 | 19 | 1 |
| 1:A:27:VAL:CG2 | 1:A:33:LEU:HD13 | 0.72 | 2.15 | 1 | 5 |
| 1:A:93:LEU:HD22 | 1:A:94:LEU:N | 0.72 | 2.00 | 16 | 1 |
| 1:A:166:ILE:HG23 | 1:A:170:ILE:CD1 | 0.72 | 2.11 | 10 | 3 |
| 1:A:113:VAL:HG21 | 1:A:122:PHE:CD2 | 0.71 | 2.19 | 6 | 2 |
| 1:A:33:LEU:HD11 | 1:A:39:VAL:CG1 | 0.71 | 2.15 | 4 | 2 |
| 1:A:42:VAL:HG22 | 1:A:143:PHE:CD1 | 0.70 | 2.22 | 14 | 2 |
| 1:A:60:LEU:HD12 | 1:A:60:LEU:O | 0.69 | 1.87 | 5 | 4 |
| 1:A:45:VAL:CG2 | 1:A:60:LEU:HD13 | 0.69 | 2.18 | 9 | 8 |
| 1:A:62:LEU:HD21 | 1:A:71:ALA:HB3 | 0.68 | 1.62 | 19 | 3 |
| 1:A:27:VAL:CG2 | 1:A:33:LEU:HD11 | 0.68 | 2.18 | 14 | 1 |
| 1:A:69:ILE:CG2 | 1:A:159:LEU:HD13 | 0.67 | 2.19 | 15 | 4 |
| 1:A:166:ILE:HG23 | 1:A:170:ILE:HG13 | 0.67 | 1.67 | 9 | 9 |
| 1:A:57:SER:HB3 | 1:A:78:ILE:HG23 | 0.67 | 1.65 | 15 | 7 |
| 1:A:57:SER:C | 1:A:58:LEU:HD13 | 0.67 | 2.11 | 16 | 14 |
| 1:A:43:LEU:HD22 | 1:A:100:ILE:HD11 | 0.66 | 1.66 | 19 | 3 |
| 1:A:47:ARG:O | 1:A:48:ILE:HD13 | 0.66 | 1.89 | 17 | 3 |
| 1:A:57:SER:HB2 | 1:A:78:ILE:HG23 | 0.66 | 1.67 | 9 | 3 |
| 1:A:43:LEU:HD23 | 1:A:62:LEU:HD11 | 0.66 | 1.67 | 9 | 1 |
| 1:A:129:PHE:CE1 | 1:A:170:ILE:HG21 | 0.66 | 2.26 | 1 | 1 |
| 1:A:58:LEU:N | 1:A:58:LEU:HD13 | 0.65 | 2.06 | 8 | 7 |
| 1:A:159:LEU:HD23 | 1:A:159:LEU:O | 0.65 | 1.91 | 9 | 2 |
| 1:A:120:LEU:HD21 | 1:A:122:PHE:CZ | 0.65 | 2.27 | 2 | 7 |
| 1:A:80:ALA:HB1 | 1:A:84:LYS:HE2 | 0.65 | 1.68 | 13 | 3 |
| 1:A:70:LEU:O | 1:A:134:VAL:HG13 | 0.65 | 1.92 | 1 | 10 |
| 1:A:70:LEU:HD21 | 1:A:122:PHE:CE2 | 0.65 | 2.26 | 18 | 1 |
| 1:A:66:ASN:O | 1:A:156:ILE:HG23 | 0.65 | 1.92 | 6 | 8 |
| 1:A:27:VAL:HG22 | 1:A:33:LEU:HD11 | 0.65 | 1.68 | 14 | 1 |
| 1:A:70:LEU:HD21 | 1:A:122:PHE:CE1 | 0.64 | 2.26 | 14 | 7 |
| 1:A:54:THR:OG1 | 1:A:58:LEU:HD12 | 0.64 | 1.93 | 20 | 1 |
| 1:A:24:LEU:HD11 | 1:A:64:ASP:OD2 | 0.63 | 1.93 | 11 | 2 |
| 1:A:27:VAL:O | 1:A:31:ALA:HB3 | 0.63 | 1.94 | 2 | 3 |
| 1:A:28:LEU:HD11 | 1:A:169:PHE:CZ | 0.63 | 2.29 | 16 | 1 |
| 1:A:166:ILE:CG2 | 1:A:170:ILE:HD12 | 0.63 | 2.12 | 13 | 4 |
| 1:A:46:LEU:HD11 | 1:A:150:LEU:HB3 | 0.62 | 1.72 | 7 | 2 |
| 1:A:27:VAL:HG22 | 1:A:33:LEU:HB2 | 0.62 | 1.71 | 11 | 4 |
| 1:A:105:ILE:HG23 | 1:A:133:LEU:CD2 | 0.61 | 2.24 | 17 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:105:ILE:HD13 | 1:A:135:LEU:CD1 | 0.61 | 2.25 | 10 | 18 |
| 1:A:75:TYR:HA | 1:A:78:ILE:HD12 | 0.61 | 1.72 | 8 | 6 |
| 1:A:77:ALA:HB2 | 1:A:138:ASN:O | 0.61 | 1.96 | 18 | 14 |
| 1:A:48:ILE:HG21 | 1:A:90:THR:HB | 0.61 | 1.73 | 20 | 7 |
| 1:A:128:LEU:HD13 | 1:A:128:LEU:N | 0.61 | 2.11 | 13 | 5 |
| 1:A:55:LEU:HD12 | 1:A:78:ILE:HD13 | 0.61 | 1.71 | 10 | 2 |
| 1:A:55:LEU:HD13 | 1:A:75:TYR:CD2 | 0.60 | 2.31 | 17 | 1 |
| 1:A:24:LEU:HD21 | 1:A:64:ASP:OD1 | 0.60 | 1.96 | 5 | 1 |
| 1:A:100:ILE:HG23 | 1:A:137:ILE:HG23 | 0.60 | 1.73 | 16 | 4 |
| 1:A:27:VAL:HG23 | 1:A:33:LEU:HD23 | 0.60 | 1.72 | 15 | 3 |
| 1:A:42:VAL:C | 1:A:43:LEU:HD22 | 0.59 | 2.18 | 11 | 2 |
| 1:A:23:TRP:O | 1:A:27:VAL:HG12 | 0.59 | 1.98 | 15 | 9 |
| 1:A:42:VAL:HG11 | 1:A:97:GLU:OE2 | 0.59 | 1.96 | 16 | 1 |
| 1:A:131:GLY:CA | 1:A:170:ILE:HD11 | 0.59 | 2.28 | 17 | 1 |
| 1:A:89:VAL:HA | 1:A:93:LEU:HD12 | 0.58 | 1.76 | 3 | 12 |
| 1:A:159:LEU:HD22 | 1:A:159:LEU:O | 0.58 | 1.99 | 7 | 4 |
| 1:A:45:VAL:C | 1:A:46:LEU:HD22 | 0.58 | 2.17 | 17 | 2 |
| 1:A:62:LEU:HD11 | 1:A:69:ILE:HD11 | 0.58 | 1.75 | 17 | 3 |
| 1:A:159:LEU:H | 1:A:159:LEU:HD13 | 0.57 | 1.58 | 1 | 2 |
| 1:A:43:LEU:CD2 | 1:A:100:ILE:HD11 | 0.57 | 2.29 | 7 | 2 |
| 1:A:24:LEU:HD21 | 1:A:64:ASP:OD2 | 0.57 | 1.99 | 3 | 1 |
| 1:A:28:LEU:HD23 | 1:A:168:ARG:HG2 | 0.57 | 1.76 | 3 | 1 |
| 1:A:47:ARG:C | 1:A:48:ILE:HD13 | 0.56 | 2.20 | 20 | 4 |
| 1:A:89:VAL:HG22 | 1:A:94:LEU:HG | 0.56 | 1.76 | 2 | 1 |
| 1:A:55:LEU:HD11 | 1:A:75:TYR:HE2 | 0.56 | 1.59 | 6 | 2 |
| 1:A:31:ALA:HB1 | 1:A:33:LEU:HD12 | 0.56 | 1.76 | 18 | 1 |
| 1:A:70:LEU:HD13 | 1:A:70:LEU:N | 0.56 | 2.15 | 1 | 1 |
| 1:A:93:LEU:HD13 | 1:A:93:LEU:H | 0.56 | 1.61 | 16 | 1 |
| 1:A:81:PHE:CE2 | 1:A:89:VAL:HG12 | 0.56 | 2.36 | 10 | 1 |
| 1:A:70:LEU:HB2 | 1:A:134:VAL:HG22 | 0.56 | 1.75 | 11 | 4 |
| 1:A:89:VAL:HG23 | 1:A:93:LEU:CB | 0.56 | 2.31 | 20 | 1 |
| 1:A:31:ALA:CB | 1:A:33:LEU:HD12 | 0.55 | 2.30 | 18 | 1 |
| 1:A:58:LEU:HD13 | 1:A:58:LEU:N | 0.55 | 2.17 | 1 | 7 |
| 1:A:64:ASP:O | 1:A:156:ILE:HD11 | 0.55 | 2.01 | 10 | 2 |
| 1:A:127:SER:C | 1:A:128:LEU:HD23 | 0.55 | 2.22 | 11 | 1 |
| 1:A:133:LEU:HD11 | 1:A:169:PHE:CE2 | 0.55 | 2.37 | 6 | 3 |
| 1:A:133:LEU:HD11 | 1:A:169:PHE:CE1 | 0.55 | 2.36 | 20 | 1 |
| 1:A:45:VAL:CG1 | 1:A:60:LEU:HD13 | 0.55 | 2.31 | 14 | 2 |
| 1:A:150:LEU:HD21 | 1:A:156:ILE:CD1 | 0.54 | 2.32 | 16 | 1 |
| 1:A:27:VAL:HG13 | 1:A:28:LEU:HD23 | 0.54 | 1.76 | 4 | 2 |
| 1:A:60:LEU:HD22 | 1:A:94:LEU:HD13 | 0.54 | 1.80 | 6 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:80:ALA:HB1 | 1:A:84:LYS:CE | 0.54 | 2.32 | 10 | 1 |
| 1:A:33:LEU:HD21 | 1:A:39:VAL:CG1 | 0.54 | 2.26 | 8 | 4 |
| 1:A:89:VAL:HG22 | 1:A:94:LEU:CD2 | 0.54 | 2.33 | 8 | 10 |
| 1:A:69:ILE:H | 1:A:69:ILE:HD13 | 0.54 | 1.62 | 1 | 18 |
| 1:A:159:LEU:C | 1:A:159:LEU:HD22 | 0.54 | 2.23 | 14 | 8 |
| 1:A:42:VAL:HG22 | 1:A:143:PHE:HD1 | 0.54 | 1.59 | 14 | 1 |
| 1:A:108:TYR:CD2 | 1:A:134:VAL:HG21 | 0.53 | 2.38 | 2 | 4 |
| 1:A:56:SER:O | 1:A:90:THR:HG23 | 0.53 | 2.03 | 8 | 12 |
| 1:A:46:LEU:HD22 | 1:A:46:LEU:N | 0.53 | 2.18 | 3 | 3 |
| 1:A:27:VAL:HG13 | 1:A:28:LEU:CD2 | 0.53 | 2.34 | 16 | 1 |
| 1:A:43:LEU:HD22 | 1:A:100:ILE:CD1 | 0.53 | 2.33 | 19 | 3 |
| 1:A:70:LEU:C | 1:A:134:VAL:HG13 | 0.53 | 2.24 | 14 | 3 |
| 1:A:27:VAL:HA | 1:A:31:ALA:HB3 | 0.53 | 1.81 | 15 | 4 |
| 1:A:149:ILE:HD12 | 1:A:149:ILE:N | 0.53 | 2.19 | 9 | 9 |
| 1:A:125:LYS:O | 1:A:126:ALA:HB2 | 0.53 | 2.03 | 11 | 1 |
| 1:A:28:LEU:HD21 | 1:A:169:PHE:CE1 | 0.53 | 2.38 | 19 | 1 |
| 1:A:43:LEU:HD12 | 1:A:62:LEU:HD12 | 0.52 | 1.81 | 16 | 1 |
| 1:A:28:LEU:HD12 | 1:A:165:TYR:CE1 | 0.52 | 2.39 | 19 | 1 |
| 1:A:108:TYR:CD1 | 1:A:134:VAL:HG21 | 0.52 | 2.40 | 6 | 5 |
| 1:A:159:LEU:HD22 | 1:A:159:LEU:C | 0.52 | 2.25 | 2 | 3 |
| 1:A:85:GLU:OE2 | 1:A:93:LEU:HD13 | 0.52 | 2.04 | 9 | 2 |
| 1:A:68:LYS:O | 1:A:159:LEU:HD11 | 0.52 | 2.05 | 1 | 1 |
| 1:A:45:VAL:HG23 | 1:A:60:LEU:HD13 | 0.52 | 1.82 | 4 | 4 |
| 1:A:43:LEU:HD11 | 1:A:62:LEU:HD13 | 0.52 | 1.80 | 18 | 3 |
| 1:A:64:ASP:O | 1:A:156:ILE:HD13 | 0.52 | 2.05 | 1 | 1 |
| 1:A:108:TYR:CG | 1:A:134:VAL:HG21 | 0.52 | 2.40 | 8 | 8 |
| 1:A:63:CYS:SG | 1:A:150:LEU:HD22 | 0.52 | 2.45 | 19 | 1 |
| 1:A:77:ALA:HB2 | 1:A:138:ASN:C | 0.52 | 2.25 | 1 | 3 |
| 1:A:55:LEU:HD11 | 1:A:75:TYR:CE2 | 0.52 | 2.40 | 6 | 2 |
| 1:A:27:VAL:HG22 | 1:A:33:LEU:CD1 | 0.52 | 2.34 | 14 | 1 |
| 1:A:58:LEU:N | 1:A:58:LEU:HD22 | 0.51 | 2.20 | 16 | 4 |
| 1:A:25:GLU:CB | 1:A:26:PRO:HD3 | 0.51 | 2.36 | 9 | 8 |
| 1:A:46:LEU:HD13 | 1:A:63:CYS:SG | 0.51 | 2.45 | 10 | 2 |
| 1:A:93:LEU:HD22 | 1:A:93:LEU:C | 0.51 | 2.25 | 16 | 1 |
| 1:A:46:LEU:HD22 | 1:A:63:CYS:SG | 0.51 | 2.46 | 10 | 3 |
| 1:A:24:LEU:HD11 | 1:A:64:ASP:CG | 0.51 | 2.26 | 13 | 1 |
| 1:A:153:ALA:HA | 1:A:156:ILE:HD12 | 0.51 | 1.83 | 8 | 7 |
| 1:A:62:LEU:HD11 | 1:A:69:ILE:CD1 | 0.51 | 2.36 | 17 | 2 |
| 1:A:128:LEU:HD22 | 1:A:128:LEU:N | 0.51 | 2.20 | 4 | 2 |
| 1:A:45:VAL:HG21 | 1:A:60:LEU:HD13 | 0.51 | 1.82 | 9 | 1 |
| 1:A:55:LEU:HB3 | 1:A:78:ILE:HG21 | 0.51 | 1.82 | 3 | 4 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:44:LYS:HD3 | 1:A:150:LEU:HD13 | 0.51 | 1.83 | 8 | 1 |
| 1:A:73:ALA:O | 1:A:78:ILE:HD11 | 0.51 | 2.05 | 13 | 1 |
| 1:A:55:LEU:CD1 | 1:A:75:TYR:CE2 | 0.51 | 2.94 | 14 | 1 |
| 1:A:45:VAL:HG12 | 1:A:94:LEU:O | 0.50 | 2.06 | 9 | 3 |
| 1:A:46:LEU:HD21 | 1:A:153:ALA:CB | 0.50 | 2.36 | 8 | 1 |
| 1:A:69:ILE:HG13 | 1:A:135:LEU:HD23 | 0.50 | 1.83 | 7 | 10 |
| 1:A:35:HIS:HA | 1:A:104:THR:HG23 | 0.50 | 1.84 | 15 | 1 |
| 1:A:45:VAL:HG11 | 1:A:94:LEU:CB | 0.50 | 2.37 | 17 | 6 |
| 1:A:58:LEU:H | 1:A:58:LEU:HD22 | 0.50 | 1.66 | 13 | 2 |
| 1:A:53:ASN:O | 1:A:54:THR:HG22 | 0.50 | 2.07 | 10 | 5 |
| 1:A:23:TRP:HE1 | 1:A:43:LEU:HD13 | 0.50 | 1.67 | 18 | 1 |
| 1:A:31:ALA:HB3 | 1:A:33:LEU:HD12 | 0.50 | 1.84 | 4 | 1 |
| 1:A:62:LEU:HD21 | 1:A:71:ALA:CB | 0.50 | 2.37 | 14 | 2 |
| 1:A:43:LEU:HD11 | 1:A:62:LEU:CD1 | 0.50 | 2.37 | 18 | 4 |
| 1:A:60:LEU:CD1 | 1:A:62:LEU:HD22 | 0.49 | 2.37 | 14 | 3 |
| 1:A:150:LEU:HD21 | 1:A:156:ILE:HD11 | 0.49 | 1.84 | 16 | 2 |
| 1:A:90:THR:HG22 | 1:A:94:LEU:CD1 | 0.49 | 2.37 | 19 | 1 |
| 1:A:131:GLY:HA3 | 1:A:170:ILE:HD11 | 0.49 | 1.83 | 17 | 1 |
| 1:A:97:GLU:HB3 | 1:A:145:ARG:HB2 | 0.49 | 1.83 | 20 | 1 |
| 1:A:45:VAL:CG2 | 1:A:48:ILE:HD11 | 0.49 | 2.37 | 18 | 1 |
| 1:A:69:ILE:HG22 | 1:A:159:LEU:HD13 | 0.49 | 1.83 | 4 | 3 |
| 1:A:23:TRP:CZ2 | 1:A:43:LEU:HD21 | 0.49 | 2.43 | 11 | 2 |
| 1:A:55:LEU:HD13 | 1:A:75:TYR:CE2 | 0.49 | 2.43 | 17 | 1 |
| 1:A:158:PHE:O | 1:A:162:THR:HG23 | 0.49 | 2.08 | 17 | 2 |
| 1:A:44:LYS:HD2 | 1:A:150:LEU:HD12 | 0.49 | 1.85 | 19 | 1 |
| 1:A:109:ASN:O | 1:A:113:VAL:HG22 | 0.49 | 2.07 | 6 | 3 |
| 1:A:58:LEU:HD22 | 1:A:58:LEU:H | 0.49 | 1.67 | 16 | 2 |
| 1:A:28:LEU:HD12 | 1:A:169:PHE:CE1 | 0.48 | 2.43 | 15 | 1 |
| 1:A:90:THR:HA | 1:A:94:LEU:HD12 | 0.48 | 1.84 | 2 | 2 |
| 1:A:74:ASN:O | 1:A:78:ILE:HG13 | 0.48 | 2.08 | 20 | 7 |
| 1:A:128:LEU:HD22 | 1:A:129:PHE:N | 0.48 | 2.24 | 2 | 2 |
| 1:A:24:LEU:O | 1:A:27:VAL:HG12 | 0.48 | 2.08 | 16 | 3 |
| 1:A:135:LEU:N | 1:A:135:LEU:HD22 | 0.48 | 2.24 | 10 | 13 |
| 1:A:43:LEU:HD23 | 1:A:62:LEU:CD1 | 0.48 | 2.39 | 19 | 2 |
| 1:A:33:LEU:HD22 | 1:A:103:PHE:CZ | 0.47 | 2.43 | 8 | 2 |
| 1:A:57:SER:HA | 1:A:90:THR:HG21 | 0.47 | 1.86 | 19 | 1 |
| 1:A:43:LEU:HD13 | 1:A:64:ASP:OD1 | 0.47 | 2.10 | 10 | 1 |
| 1:A:103:PHE:CD2 | 1:A:135:LEU:HD12 | 0.47 | 2.44 | 5 | 1 |
| 1:A:81:PHE:CD1 | 1:A:82:GLU:N | 0.47 | 2.83 | 13 | 3 |
| 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 0.47 | 1.87 | 16 | 2 |
| 1:A:82:GLU:O | 1:A:86:ARG:HA | 0.47 | 2.10 | 7 | 4 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:81:PHE:CZ | 1:A:89:VAL:HG23 | 0.47 | 2.45 | 2 | 1 |
| 1:A:54:THR:HG22 | 1:A:55:LEU:N | 0.47 | 2.25 | 5 | 2 |
| 1:A:69:ILE:HG22 | 1:A:159:LEU:HG | 0.47 | 1.86 | 6 | 3 |
| 1:A:62:LEU:CD2 | 1:A:71:ALA:HB3 | 0.47 | 2.40 | 14 | 2 |
| 1:A:105:ILE:HD13 | 1:A:135:LEU:HD11 | 0.47 | 1.87 | 11 | 1 |
| 1:A:159:LEU:HD22 | 1:A:160:TYR:N | 0.46 | 2.25 | 1 | 1 |
| 1:A:67:TYR:CB | 1:A:159:LEU:HD12 | 0.46 | 2.38 | 4 | 1 |
| 1:A:105:ILE:HG21 | 1:A:169:PHE:CE2 | 0.46 | 2.44 | 1 | 2 |
| 1:A:128:LEU:HD22 | 1:A:128:LEU:H | 0.46 | 1.69 | 4 | 2 |
| 1:A:99:MET:N | 1:A:141:SER:O | 0.46 | 2.48 | 20 | 1 |
| 1:A:147:GLN:C | 1:A:148:LEU:HD22 | 0.46 | 2.31 | 6 | 2 |
| 1:A:81:PHE:CE2 | 1:A:82:GLU:CG | 0.46 | 2.99 | 9 | 1 |
| 1:A:48:ILE:HD12 | 1:A:94:LEU:HD12 | 0.46 | 1.87 | 16 | 1 |
| 1:A:150:LEU:CD2 | 1:A:153:ALA:HB2 | 0.46 | 2.34 | 13 | 1 |
| 1:A:100:ILE:HG23 | 1:A:137:ILE:CG2 | 0.46 | 2.40 | 16 | 1 |
| 1:A:128:LEU:HD13 | 1:A:128:LEU:H | 0.46 | 1.70 | 2 | 3 |
| 1:A:66:ASN:C | 1:A:156:ILE:HG23 | 0.46 | 2.30 | 15 | 1 |
| 1:A:69:ILE:HD13 | 1:A:69:ILE:N | 0.46 | 2.26 | 16 | 15 |
| 1:A:24:LEU:HD11 | 1:A:64:ASP:HB2 | 0.46 | 1.86 | 1 | 1 |
| 1:A:27:VAL:HG23 | 1:A:33:LEU:HD11 | 0.46 | 1.86 | 19 | 1 |
| 1:A:28:LEU:CD1 | 1:A:169:PHE:CZ | 0.45 | 2.97 | 16 | 1 |
| 1:A:69:ILE:N | 1:A:69:ILE:HD13 | 0.45 | 2.27 | 18 | 1 |
| 1:A:54:THR:O | 1:A:54:THR:HG22 | 0.45 | 2.11 | 4 | 2 |
| 1:A:60:LEU:HD12 | 1:A:62:LEU:HD22 | 0.45 | 1.88 | 4 | 2 |
| 1:A:57:SER:CB | 1:A:78:ILE:HG23 | 0.45 | 2.41 | 20 | 1 |
| 1:A:26:PRO:O | 1:A:30:GLU:N | 0.45 | 2.49 | 15 | 5 |
| 1:A:120:LEU:HD13 | 1:A:121:LYS:N | 0.45 | 2.26 | 13 | 1 |
| 1:A:25:GLU:HB2 | 1:A:26:PRO:HD3 | 0.45 | 1.89 | 19 | 1 |
| 1:A:45:VAL:C | 1:A:46:LEU:HD12 | 0.45 | 2.32 | 6 | 2 |
| 1:A:67:TYR:HA | 1:A:156:ILE:HG23 | 0.45 | 1.88 | 4 | 4 |
| 1:A:43:LEU:HG | 1:A:62:LEU:HD13 | 0.45 | 1.89 | 5 | 3 |
| 1:A:125:LYS:O | 1:A:126:ALA:CB | 0.45 | 2.64 | 11 | 1 |
| 1:A:27:VAL:HG22 | 1:A:33:LEU:HG | 0.45 | 1.88 | 17 | 1 |
| 1:A:58:LEU:N | 1:A:58:LEU:CD1 | 0.45 | 2.78 | 15 | 6 |
| 1:A:128:LEU:CD2 | 1:A:129:PHE:CD2 | 0.44 | 3.00 | 3 | 1 |
| 1:A:28:LEU:HD21 | 1:A:169:PHE:CE2 | 0.44 | 2.47 | 6 | 2 |
| 1:A:116:PHE:CD2 | 1:A:117:PHE:CE2 | 0.44 | 3.06 | 1 | 1 |
| 1:A:43:LEU:CD1 | 1:A:62:LEU:HD13 | 0.44 | 2.43 | 6 | 3 |
| 1:A:55:LEU:CD1 | 1:A:78:ILE:HD13 | 0.44 | 2.42 | 10 | 1 |
| 1:A:23:TRP:CE2 | 1:A:43:LEU:HD13 | 0.44 | 2.48 | 2 | 1 |
| 1:A:58:LEU:HB2 | 1:A:59:PRO:HD2 | 0.44 | 1.88 | 15 | 8 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:105:ILE:HG21 | 1:A:169:PHE:CZ | 0.44 | 2.48 | 2 | 1 |
| 1:A:28:LEU:HD13 | 1:A:168:ARG:HG3 | 0.44 | 1.90 | 9 | 1 |
| 1:A:159:LEU:HD11 | 1:A:165:TYR:CE1 | 0.44 | 2.47 | 13 | 1 |
| 1:A:48:ILE:C | 1:A:50:PRO:HD3 | 0.44 | 2.33 | 17 | 1 |
| 1:A:89:VAL:HA | 1:A:93:LEU:HD22 | 0.44 | 1.90 | 10 | 1 |
| 1:A:37:TYR:CD1 | 1:A:37:TYR:N | 0.44 | 2.86 | 19 | 1 |
| 1:A:99:MET:CG | 1:A:143:PHE:HB2 | 0.44 | 2.42 | 20 | 1 |
| 1:A:67:TYR:CE2 | 1:A:162:THR:HG22 | 0.44 | 2.47 | 3 | 1 |
| 1:A:94:LEU:HD22 | 1:A:98:ILE:CD1 | 0.44 | 2.43 | 14 | 1 |
| 1:A:55:LEU:HG | 1:A:75:TYR:CE2 | 0.44 | 2.48 | 2 | 1 |
| 1:A:89:VAL:HG23 | 1:A:93:LEU:HB3 | 0.44 | 1.89 | 20 | 1 |
| 1:A:27:VAL:CG2 | 1:A:33:LEU:HD23 | 0.43 | 2.43 | 5 | 1 |
| 1:A:93:LEU:HD23 | 1:A:142:MET:CE | 0.43 | 2.42 | 16 | 1 |
| 1:A:100:ILE:CG2 | 1:A:137:ILE:HG23 | 0.43 | 2.42 | 16 | 1 |
| 1:A:70:LEU:HD12 | 1:A:117:PHE:CE2 | 0.43 | 2.48 | 20 | 1 |
| 1:A:46:LEU:N | 1:A:46:LEU:CD2 | 0.43 | 2.81 | 17 | 1 |
| 1:A:33:LEU:HD13 | 1:A:37:TYR:CB | 0.43 | 2.42 | 9 | 1 |
| 1:A:43:LEU:CD2 | 1:A:62:LEU:HD11 | 0.43 | 2.41 | 9 | 1 |
| 1:A:28:LEU:HD11 | 1:A:165:TYR:CE2 | 0.43 | 2.48 | 8 | 1 |
| 1:A:63:CYS:SG | 1:A:153:ALA:HB1 | 0.43 | 2.54 | 20 | 1 |
| 1:A:81:PHE:CE2 | 1:A:82:GLU:HG3 | 0.43 | 2.49 | 9 | 1 |
| 1:A:85:GLU:O | 1:A:86:ARG:HG2 | 0.43 | 2.13 | 13 | 1 |
| 1:A:39:VAL:CG2 | 1:A:103:PHE:CZ | 0.43 | 3.01 | 14 | 1 |
| 1:A:23:TRP:CZ3 | 1:A:41:LYS:CE | 0.43 | 3.01 | 18 | 1 |
| 1:A:51:ARG:O | 1:A:54:THR:HG22 | 0.43 | 2.14 | 2 | 1 |
| 1:A:81:PHE:CD2 | 1:A:140:PHE:CE1 | 0.43 | 3.06 | 6 | 3 |
| 1:A:53:ASN:O | 1:A:54:THR:CG2 | 0.43 | 2.67 | 10 | 6 |
| 1:A:43:LEU:HG | 1:A:62:LEU:HD12 | 0.43 | 1.89 | 4 | 2 |
| 1:A:133:LEU:HD11 | 1:A:169:PHE:CZ | 0.43 | 2.49 | 16 | 2 |
| 1:A:28:LEU:HD21 | 1:A:165:TYR:HA | 0.43 | 1.90 | 8 | 1 |
| 1:A:58:LEU:CB | 1:A:59:PRO:CD | 0.42 | 2.97 | 14 | 1 |
| 1:A:56:SER:CB | 1:A:81:PHE:CE1 | 0.42 | 3.02 | 15 | 1 |
| 1:A:148:LEU:HD22 | 1:A:148:LEU:N | 0.42 | 2.29 | 6 | 2 |
| 1:A:133:LEU:CD1 | 1:A:169:PHE:CE2 | 0.42 | 3.02 | 16 | 1 |
| 1:A:44:LYS:O | 1:A:62:LEU:HB2 | 0.42 | 2.14 | 19 | 2 |
| 1:A:58:LEU:O | 1:A:60:LEU:HD23 | 0.42 | 2.13 | 7 | 1 |
| 1:A:78:ILE:O | 1:A:81:PHE:CD1 | 0.42 | 2.72 | 10 | 2 |
| 1:A:28:LEU:HD21 | 1:A:169:PHE:CZ | 0.42 | 2.50 | 18 | 1 |
| 1:A:120:LEU:CD2 | 1:A:122:PHE:CZ | 0.42 | 3.02 | 7 | 3 |
| 1:A:43:LEU:HD23 | 1:A:100:ILE:HD11 | 0.42 | 1.91 | 4 | 1 |
| 1:A:28:LEU:HD11 | 1:A:168:ARG:HB3 | 0.42 | 1.92 | 5 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:23:TRP:NE1 | 1:A:43:LEU:HD13 | 0.42 | 2.29 | 9 | 1 |
| 1:A:160:TYR:O | 1:A:166:ILE:HD11 | 0.42 | 2.15 | 14 | 3 |
| 1:A:57:SER:HB2 | 1:A:78:ILE:HD13 | 0.42 | 1.91 | 14 | 1 |
| 1:A:44:LYS:CD | 1:A:150:LEU:HD12 | 0.42 | 2.44 | 19 | 1 |
| 1:A:59:PRO:CB | 1:A:116:PHE:CE2 | 0.42 | 3.03 | 1 | 1 |
| 1:A:158:PHE:CG | 1:A:160:TYR:CZ | 0.42 | 3.07 | 3 | 1 |
| 1:A:81:PHE:CD2 | 1:A:82:GLU:N | 0.42 | 2.88 | 8 | 1 |
| 1:A:44:LYS:HG2 | 1:A:150:LEU:HD13 | 0.42 | 1.91 | 10 | 1 |
| 1:A:27:VAL:HG23 | 1:A:33:LEU:CD2 | 0.42 | 2.42 | 15 | 1 |
| 1:A:93:LEU:H | 1:A:93:LEU:CD1 | 0.42 | 2.27 | 16 | 1 |
| 1:A:46:LEU:HD12 | 1:A:46:LEU:N | 0.42 | 2.29 | 6 | 2 |
| 1:A:27:VAL:CG2 | 1:A:33:LEU:CD1 | 0.42 | 2.98 | 19 | 1 |
| 1:A:89:VAL:HG22 | 1:A:94:LEU:CG | 0.42 | 2.44 | 2 | 1 |
| 1:A:105:ILE:HD13 | 1:A:135:LEU:HD13 | 0.42 | 1.92 | 16 | 1 |
| 1:A:68:LYS:O | 1:A:159:LEU:CD1 | 0.42 | 2.68 | 1 | 1 |
| 1:A:43:LEU:CG | 1:A:62:LEU:HD13 | 0.42 | 2.45 | 7 | 5 |
| 1:A:133:LEU:CD1 | 1:A:169:PHE:CZ | 0.42 | 3.03 | 16 | 1 |
| 1:A:93:LEU:HD12 | 1:A:93:LEU:N | 0.41 | 2.30 | 4 | 2 |
| 1:A:148:LEU:C | 1:A:149:ILE:HD12 | 0.41 | 2.35 | 9 | 2 |
| 1:A:108:TYR:CD2 | 1:A:112:GLN:HB3 | 0.41 | 2.50 | 1 | 1 |
| 1:A:128:LEU:H | 1:A:128:LEU:HD22 | 0.41 | 1.75 | 13 | 1 |
| 1:A:85:GLU:HG2 | 1:A:93:LEU:HD11 | 0.41 | 1.93 | 7 | 1 |
| 1:A:52:SER:O | 1:A:54:THR:HG23 | 0.41 | 2.15 | 8 | 1 |
| 1:A:81:PHE:CE2 | 1:A:89:VAL:CG1 | 0.41 | 3.03 | 10 | 1 |
| 1:A:81:PHE:CZ | 1:A:89:VAL:HG12 | 0.41 | 2.50 | 11 | 2 |
| 1:A:110:ASP:O | 1:A:113:VAL:HG22 | 0.41 | 2.15 | 5 | 1 |
| 1:A:46:LEU:HD21 | 1:A:150:LEU:HB3 | 0.41 | 1.92 | 6 | 2 |
| 1:A:166:ILE:HG23 | 1:A:170:ILE:CG1 | 0.41 | 2.43 | 6 | 2 |
| 1:A:93:LEU:N | 1:A:93:LEU:HD12 | 0.41 | 2.31 | 10 | 1 |
| 1:A:39:VAL:CG2 | 1:A:103:PHE:CE2 | 0.41 | 3.03 | 14 | 1 |
| 1:A:105:ILE:HG23 | 1:A:133:LEU:HG | 0.41 | 1.92 | 2 | 1 |
| 1:A:28:LEU:HD23 | 1:A:168:ARG:CG | 0.41 | 2.45 | 3 | 1 |
| 1:A:57:SER:CB | 1:A:78:ILE:HG12 | 0.41 | 2.45 | 16 | 1 |
| 1:A:37:TYR:CE2 | 1:A:103:PHE:CE1 | 0.41 | 3.09 | 19 | 1 |
| 1:A:64:ASP:OD1 | 1:A:69:ILE:HD12 | 0.41 | 2.15 | 1 | 1 |
| 1:A:54:THR:HG22 | 1:A:55:LEU:H | 0.41 | 1.76 | 5 | 1 |
| 1:A:64:ASP:N | 1:A:67:TYR:O | 0.41 | 2.52 | 5 | 1 |
| 1:A:47:ARG:O | 1:A:60:LEU:HB2 | 0.41 | 2.16 | 7 | 1 |
| 1:A:23:TRP:O | 1:A:27:VAL:CG1 | 0.41 | 2.69 | 9 | 1 |
| 1:A:88:ARG:HB3 | 1:A:91:GLN:HG2 | 0.41 | 1.93 | 10 | 1 |
| 1:A:89:VAL:C | 1:A:93:LEU:HD11 | 0.41 | 2.36 | 16 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:25:GLU:CB | 1:A:26:PRO:CD | 0.41 | 2.99 | 8 | 1 |
| 1:A:133:LEU:HD13 | 1:A:165:TYR:CE1 | 0.41 | 2.51 | 9 | 1 |
| 1:A:93:LEU:C | 1:A:93:LEU:CD2 | 0.41 | 2.89 | 16 | 1 |
| 1:A:68:LYS:CE | 1:A:158:PHE:CE1 | 0.41 | 3.04 | 20 | 1 |
| 1:A:81:PHE:CE2 | 1:A:89:VAL:HG23 | 0.40 | 2.51 | 16 | 1 |
| 1:A:167:ALA:HA | 1:A:171:GLU:CB | 0.40 | 2.47 | 2 | 1 |
| 1:A:24:LEU:O | 1:A:28:LEU:HD13 | 0.40 | 2.17 | 8 | 1 |
| 1:A:27:VAL:HG13 | 1:A:28:LEU:N | 0.40 | 2.31 | 11 | 1 |
| 1:A:68:LYS:HG3 | 1:A:156:ILE:HG21 | 0.40 | 1.92 | 14 | 1 |
| 1:A:128:LEU:H | 1:A:128:LEU:HD23 | 0.40 | 1.76 | 10 | 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 | 150/178 (84%) | 137±2 (92±2%) | 9±2 (6±1%) | 3±1 (2±1%) | 10 | 49 |
| All | All | 3000/3560 (84%) | 2746 (92%) | 188 (6%) | 66 (2%) | 10 | 49 |

All 12 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 119 | GLY | 20 |
| 1 | A | 91 | GLN | 14 |
| 1 | A | 126 | ALA | 11 |
| 1 | A | 96 | SER | 7 |
| 1 | A | 84 | LYS | 4 |
| 1 | A | 33 | LEU | 2 |
| 1 | A | 64 | ASP | 2 |
| 1 | A | 57 | SER | 2 |
| 1 | A | 161 | GLY | 1 |
| 1 | A | 162 | THR | 1 |
| 1 | A | 128 | LEU | 1 |
| 1 | A | 59 | PRO | 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 | 133/155 (86%) | 115±3 (87±2%) | 18±3 (13±2%) | 7 | 48 |
| All | All | 2660/3100 (86%) | 2308 (87%) | 352 (13%) | 7 | 48 |

All 69 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 69 | ILE | 20 |
| 1 | A | 114 | GLN | 19 |
| 1 | A | 76 | LYS | 16 |
| 1 | A | 128 | LEU | 16 |
| 1 | A | 58 | LEU | 15 |
| 1 | A | 159 | LEU | 13 |
| 1 | A | 168 | ARG | 13 |
| 1 | A | 133 | LEU | 11 |
| 1 | A | 25 | GLU | 11 |
| 1 | A | 138 | ASN | 10 |
| 1 | A | 70 | LEU | 9 |
| 1 | A | 95 | ASN | 9 |
| 1 | A | 142 | MET | 9 |
| 1 | A | 81 | PHE | 9 |
| 1 | A | 116 | PHE | 9 |
| 1 | A | 83 | ARG | 8 |
| 1 | A | 23 | TRP | 8 |
| 1 | A | 124 | GLN | 8 |
| 1 | A | 49 | TYR | 8 |
| 1 | A | 33 | LEU | 8 |
| 1 | A | 64 | ASP | 7 |
| 1 | A | 117 | PHE | 7 |
| 1 | A | 55 | LEU | 6 |
| 1 | A | 99 | MET | 6 |
| 1 | A | 86 | ARG | 5 |
| 1 | A | 62 | LEU | 5 |
| 1 | A | 97 | GLU | 5 |
| 1 | A | 92 | ASN | 4 |
| 1 | A | 102 | SER | 4 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 120 | LEU | 4 |
| 1 | A | 48 | ILE | 4 |
| 1 | A | 38 | LYS | 4 |
| 1 | A | 145 | ARG | 3 |
| 1 | A | 68 | LYS | 3 |
| 1 | A | 164 | ARG | 3 |
| 1 | A | 165 | TYR | 3 |
| 1 | A | 160 | TYR | 3 |
| 1 | A | 29 | CYS | 3 |
| 1 | A | 36 | ASN | 3 |
| 1 | A | 41 | LYS | 3 |
| 1 | A | 28 | LEU | 2 |
| 1 | A | 91 | GLN | 2 |
| 1 | A | 88 | ARG | 2 |
| 1 | A | 144 | ASN | 2 |
| 1 | A | 35 | HIS | 2 |
| 1 | A | 146 | ASP | 2 |
| 1 | A | 74 | ASN | 2 |
| 1 | A | 56 | SER | 2 |
| 1 | A | 150 | LEU | 2 |
| 1 | A | 84 | LYS | 1 |
| 1 | A | 46 | LEU | 1 |
| 1 | A | 47 | ARG | 1 |
| 1 | A | 125 | LYS | 1 |
| 1 | A | 44 | LYS | 1 |
| 1 | A | 121 | LYS | 1 |
| 1 | A | 37 | TYR | 1 |
| 1 | A | 51 | ARG | 1 |
| 1 | A | 57 | SER | 1 |
| 1 | A | 123 | LYS | 1 |
| 1 | A | 171 | GLU | 1 |
| 1 | A | 54 | THR | 1 |
| 1 | A | 143 | PHE | 1 |
| 1 | A | 158 | PHE | 1 |
| 1 | A | 93 | LEU | 1 |
| 1 | A | 90 | THR | 1 |
| 1 | A | 96 | SER | 1 |
| 1 | A | 139 | ASP | 1 |
| 1 | A | 106 | ARG | 1 |
| 1 | A | 112 | GLN | 1 |

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation [i](#)

The completeness of assignment taking into account all chemical shift lists is 80% for the well-defined parts and 79% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping [i](#)

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

| | |
|---|------|
| Total number of shifts | 1997 |
| Number of shifts mapped to atoms | 1997 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 5 |

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 |
|------------------------|----------|---------------------------------|-------------------------|
| $^{13}\text{C}_\alpha$ | 176 | -0.18 ± 0.13 | None needed (< 0.5 ppm) |
| $^{13}\text{C}_\beta$ | 167 | -0.01 ± 0.14 | None needed (< 0.5 ppm) |
| $^{13}\text{C}'$ | 168 | 0.13 ± 0.11 | None needed (< 0.5 ppm) |
| ^{15}N | 168 | 0.42 ± 0.46 | None needed (< 0.5 ppm) |

7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 80%, i.e. 1731 atoms were assigned a chemical shift out of a possible 2175. 0 out of 26 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ^1H | ^{13}C | ^{15}N |
|-----------|----------------|---------------|-----------------|-----------------|
| Backbone | 735/747 (98%) | 297/302 (98%) | 293/300 (98%) | 145/145 (100%) |
| Sidechain | 914/1208 (76%) | 615/785 (78%) | 285/368 (77%) | 14/55 (25%) |

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| | Total | ¹ H | ¹³ C | ¹⁵ N |
|----------|-----------------|----------------|-----------------|-----------------|
| Aromatic | 82/220 (37%) | 79/106 (75%) | 2/109 (2%) | 1/5 (20%) |
| Overall | 1731/2175 (80%) | 991/1193 (83%) | 580/777 (75%) | 160/205 (78%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 79%, i.e. 1997 atoms were assigned a chemical shift out of a possible 2518. 0 out of 28 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ¹ H | ¹³ C | ¹⁵ N |
|-----------|-----------------|-----------------|-----------------|-----------------|
| Backbone | 859/885 (97%) | 347/358 (97%) | 344/356 (97%) | 168/171 (98%) |
| Sidechain | 1046/1387 (75%) | 704/901 (78%) | 328/424 (77%) | 14/62 (23%) |
| Aromatic | 92/246 (37%) | 87/119 (73%) | 4/118 (3%) | 1/9 (11%) |
| Overall | 1997/2518 (79%) | 1138/1378 (83%) | 676/898 (75%) | 183/242 (76%) |

7.1.4 Statistically unusual chemical shifts [i](#)

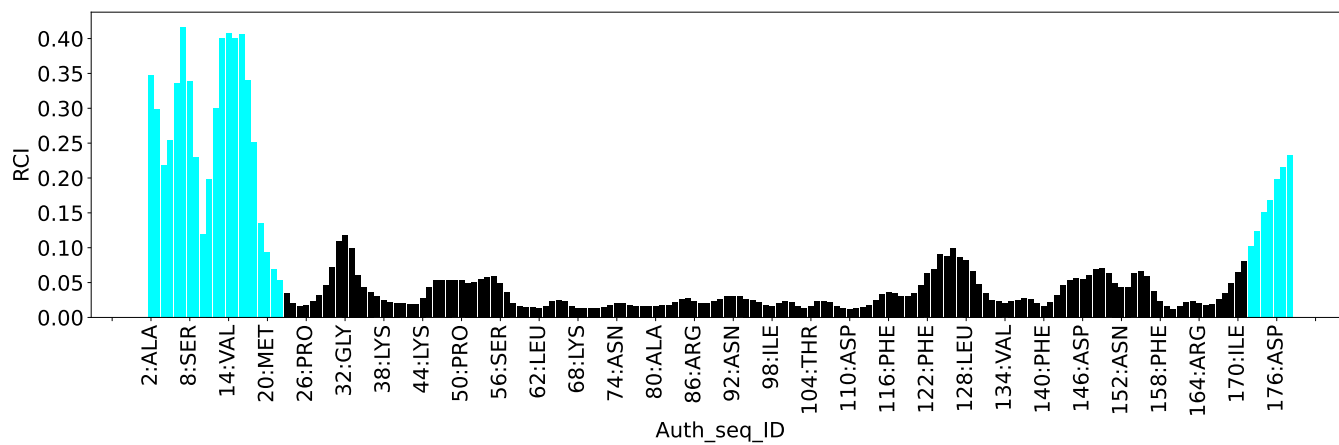
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, ppm | Expected range, ppm | Z-score |
|---------|-------|-----|------|------|------------|---------------------|---------|
| 1 | A | 68 | LYS | HE3 | 1.35 | 1.92 – 3.89 | -7.9 |
| 1 | A | 41 | LYS | HG3 | -0.50 | 0.04 – 2.67 | -7.0 |
| 1 | A | 41 | LYS | HD3 | 0.13 | 0.54 – 2.65 | -7.0 |
| 1 | A | 41 | LYS | HB3 | 0.37 | 0.46 – 3.04 | -5.4 |
| 1 | A | 68 | LYS | HD2 | 0.54 | 0.58 – 2.64 | -5.2 |

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

| Description | Value |
|--|-------|
| Total distance restraints | 2262 |
| Intra-residue ($ i-j =0$) | 1041 |
| Sequential ($ i-j =1$) | 568 |
| Medium range ($ i-j >1$ and $ i-j <5$) | 210 |
| Long range ($ i-j \geq 5$) | 443 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 0 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 228 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 14.0 |
| Number of long range restraints per residue ¹ | 2.5 |

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

| Bins (Å) | Average number of violations per model | Max (Å) |
|------------------|--|---------|
| 0.1-0.2 (Small) | 65.5 | 0.2 |
| 0.2-0.5 (Medium) | 27.2 | 0.5 |
| >0.5 (Large) | None | None |

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) | 3.0 | 4.8 |
| 10.0-20.0 (Medium) | None | None |
| >20.0 (Large) | None | None |

9 Distance violation analysis i

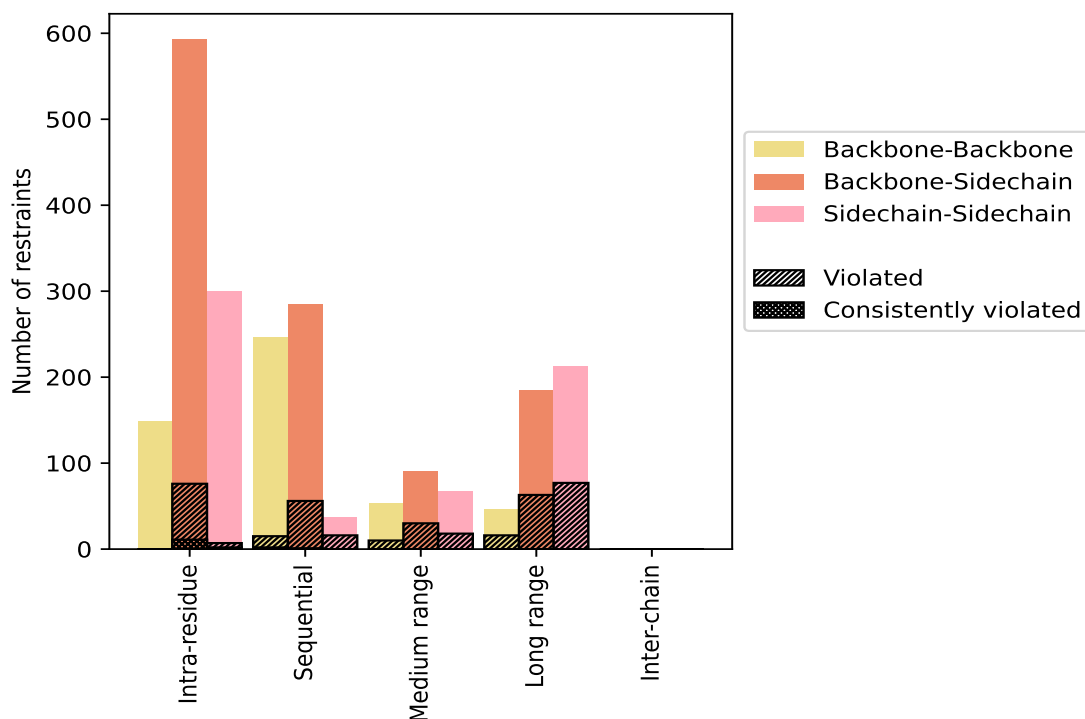
9.1 Summary of distance violations i

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

| Restrains type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|---|-------------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| Intra-residue ($i-j =0$) | 1041 | 46.0 | 83 | 8.0 | 3.7 | 13 | 1.2 | 0.6 |
| Backbone-Backbone | 148 | 6.5 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 593 | 26.2 | 76 | 12.8 | 3.4 | 11 | 1.9 | 0.5 |
| Sidechain-Sidechain | 300 | 13.3 | 7 | 2.3 | 0.3 | 2 | 0.7 | 0.1 |
| Sequential ($i-j =1$) | 568 | 25.1 | 87 | 15.3 | 3.8 | 3 | 0.5 | 0.1 |
| Backbone-Backbone | 246 | 10.9 | 15 | 6.1 | 0.7 | 2 | 0.8 | 0.1 |
| Backbone-Sidechain | 285 | 12.6 | 56 | 19.6 | 2.5 | 1 | 0.4 | 0.0 |
| Sidechain-Sidechain | 37 | 1.6 | 16 | 43.2 | 0.7 | 0 | 0.0 | 0.0 |
| Medium range ($i-j >1$ & $i-j <5$) | 210 | 9.3 | 58 | 27.6 | 2.6 | 0 | 0.0 | 0.0 |
| Backbone-Backbone | 53 | 2.3 | 10 | 18.9 | 0.4 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 90 | 4.0 | 30 | 33.3 | 1.3 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 67 | 3.0 | 18 | 26.9 | 0.8 | 0 | 0.0 | 0.0 |
| Long range ($i-j \geq 5$) | 443 | 19.6 | 156 | 35.2 | 6.9 | 0 | 0.0 | 0.0 |
| Backbone-Backbone | 46 | 2.0 | 16 | 34.8 | 0.7 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 185 | 8.2 | 63 | 34.1 | 2.8 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 212 | 9.4 | 77 | 36.3 | 3.4 | 0 | 0.0 | 0.0 |
| Inter-chain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Backbone | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Hydrogen bond | 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 | 2262 | 100.0 | 384 | 17.0 | 17.0 | 16 | 0.7 | 0.7 |
| Backbone-Backbone | 493 | 21.8 | 41 | 8.3 | 1.8 | 2 | 0.4 | 0.1 |
| Backbone-Sidechain | 1153 | 51.0 | 225 | 19.5 | 9.9 | 12 | 1.0 | 0.5 |
| Sidechain-Sidechain | 616 | 27.2 | 118 | 19.2 | 5.2 | 2 | 0.3 | 0.1 |

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 | 25 | 20 | 10 | 30 | 0 | 85 | 0.18 | 0.48 | 0.07 | 0.16 |
| 2 | 32 | 19 | 13 | 29 | 0 | 93 | 0.19 | 0.48 | 0.08 | 0.18 |
| 3 | 26 | 24 | 6 | 31 | 0 | 87 | 0.18 | 0.36 | 0.06 | 0.16 |
| 4 | 29 | 20 | 13 | 37 | 0 | 99 | 0.18 | 0.47 | 0.06 | 0.16 |
| 5 | 30 | 24 | 17 | 38 | 0 | 109 | 0.17 | 0.43 | 0.06 | 0.15 |
| 6 | 31 | 21 | 8 | 26 | 0 | 86 | 0.17 | 0.48 | 0.06 | 0.16 |
| 7 | 27 | 18 | 14 | 22 | 0 | 81 | 0.18 | 0.44 | 0.07 | 0.16 |
| 8 | 29 | 18 | 9 | 26 | 0 | 82 | 0.17 | 0.48 | 0.06 | 0.15 |
| 9 | 28 | 22 | 13 | 38 | 0 | 101 | 0.18 | 0.4 | 0.06 | 0.16 |
| 10 | 31 | 24 | 13 | 28 | 0 | 96 | 0.17 | 0.41 | 0.06 | 0.15 |
| 11 | 31 | 27 | 10 | 36 | 0 | 104 | 0.18 | 0.47 | 0.07 | 0.17 |

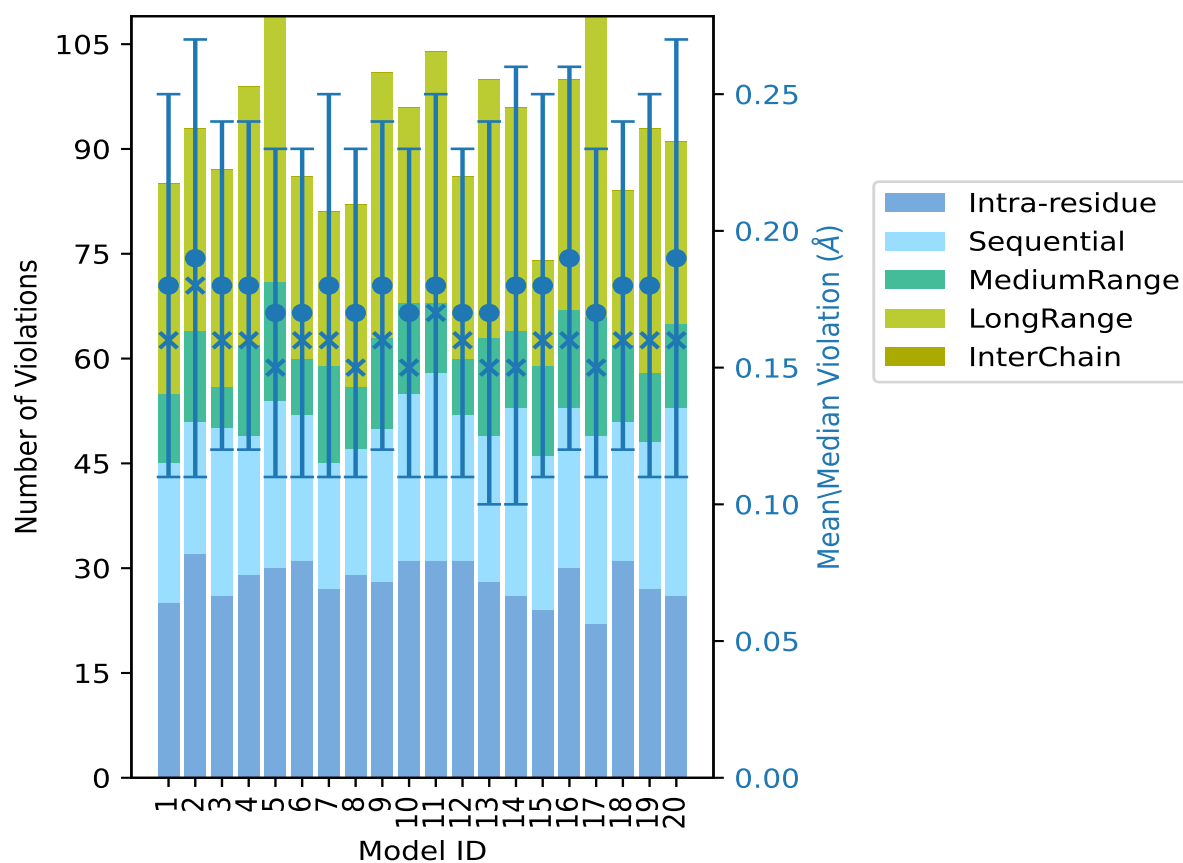
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| Model ID | Number of violations | | | | | Total | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | | | | | |
| 12 | 31 | 21 | 8 | 26 | 0 | 86 | 0.17 | 0.48 | 0.06 | 0.16 |
| 13 | 28 | 21 | 14 | 37 | 0 | 100 | 0.17 | 0.39 | 0.07 | 0.15 |
| 14 | 26 | 27 | 11 | 32 | 0 | 96 | 0.18 | 0.47 | 0.08 | 0.15 |
| 15 | 24 | 22 | 13 | 15 | 0 | 74 | 0.18 | 0.48 | 0.07 | 0.16 |
| 16 | 30 | 23 | 14 | 33 | 0 | 100 | 0.19 | 0.49 | 0.07 | 0.16 |
| 17 | 22 | 27 | 17 | 43 | 0 | 109 | 0.17 | 0.43 | 0.06 | 0.15 |
| 18 | 31 | 20 | 11 | 22 | 0 | 84 | 0.18 | 0.5 | 0.06 | 0.16 |
| 19 | 27 | 21 | 10 | 35 | 0 | 93 | 0.18 | 0.39 | 0.07 | 0.16 |
| 20 | 26 | 27 | 12 | 26 | 0 | 91 | 0.19 | 0.49 | 0.08 | 0.16 |

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

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



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

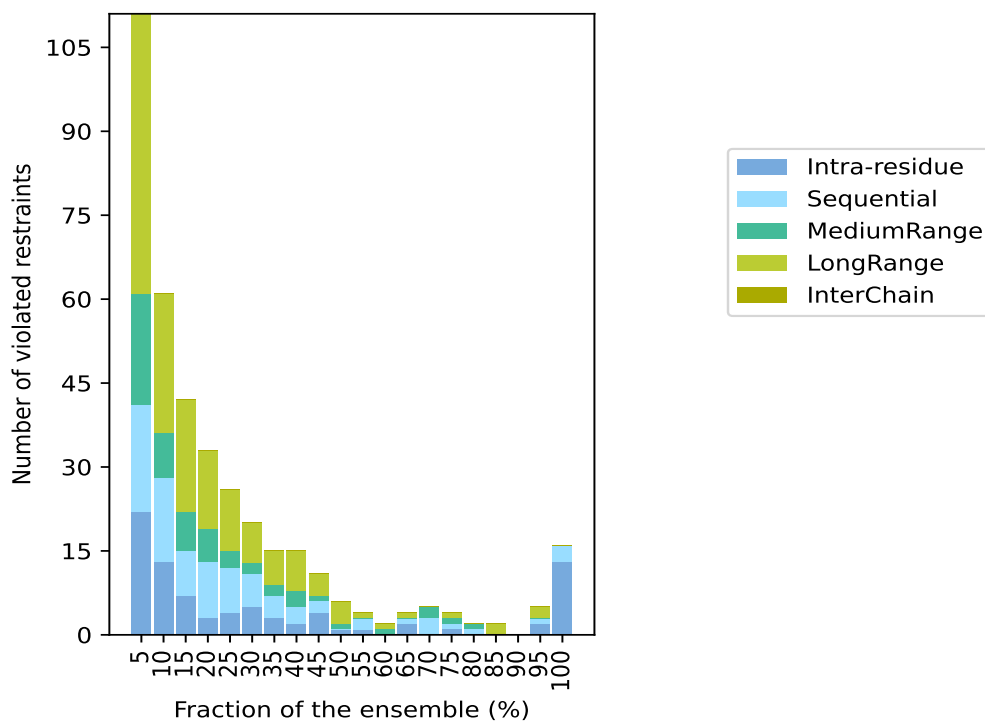
9.3 Distance violation statistics for the ensemble

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, 1878(IR:958, SQ:481, MR:152, LR:287, IC:0) restraints are not violated in the ensemble.

| Number of violated restraints | | | | | | Fraction of the ensemble | |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-------|--------------------------|-------|
| IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | Total | Count ⁶ | % |
| 22 | 19 | 20 | 50 | 0 | 111 | 1 | 5.0 |
| 13 | 15 | 8 | 25 | 0 | 61 | 2 | 10.0 |
| 7 | 8 | 7 | 20 | 0 | 42 | 3 | 15.0 |
| 3 | 10 | 6 | 14 | 0 | 33 | 4 | 20.0 |
| 4 | 8 | 3 | 11 | 0 | 26 | 5 | 25.0 |
| 5 | 6 | 2 | 7 | 0 | 20 | 6 | 30.0 |
| 3 | 4 | 2 | 6 | 0 | 15 | 7 | 35.0 |
| 2 | 3 | 3 | 7 | 0 | 15 | 8 | 40.0 |
| 4 | 2 | 1 | 4 | 0 | 11 | 9 | 45.0 |
| 1 | 0 | 1 | 4 | 0 | 6 | 10 | 50.0 |
| 1 | 2 | 0 | 1 | 0 | 4 | 11 | 55.0 |
| 0 | 0 | 1 | 1 | 0 | 2 | 12 | 60.0 |
| 2 | 1 | 0 | 1 | 0 | 4 | 13 | 65.0 |
| 0 | 3 | 2 | 0 | 0 | 5 | 14 | 70.0 |
| 1 | 1 | 1 | 1 | 0 | 4 | 15 | 75.0 |
| 0 | 1 | 1 | 0 | 0 | 2 | 16 | 80.0 |
| 0 | 0 | 0 | 2 | 0 | 2 | 17 | 85.0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 18 | 90.0 |
| 2 | 1 | 0 | 2 | 0 | 5 | 19 | 95.0 |
| 13 | 3 | 0 | 0 | 0 | 16 | 20 | 100.0 |

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

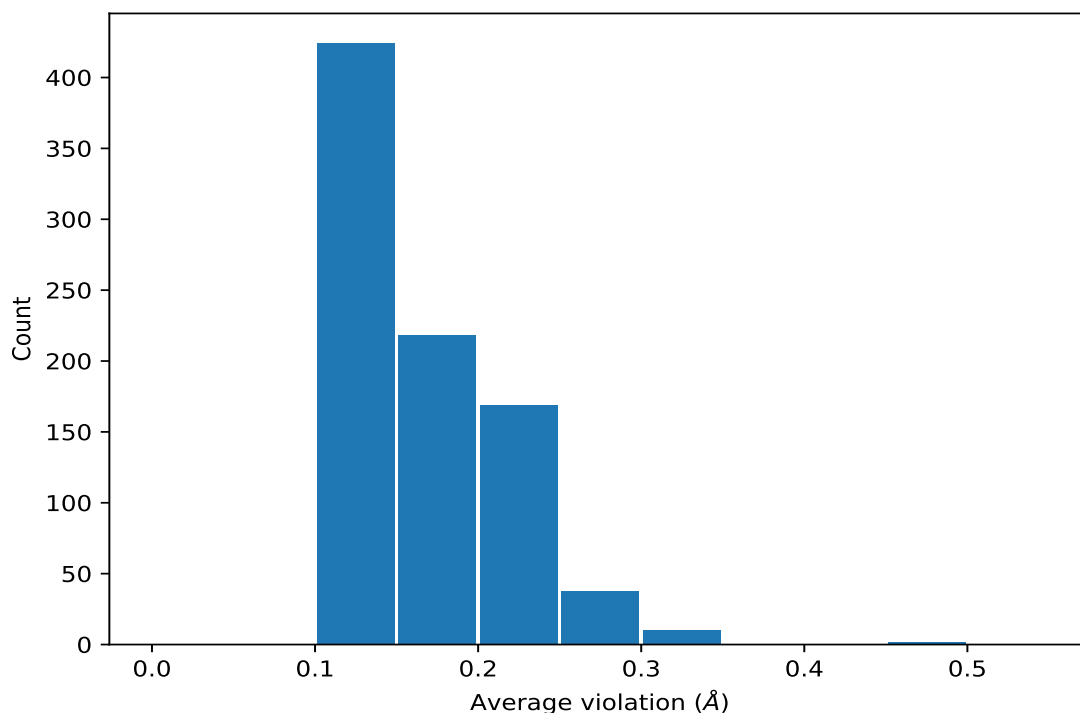
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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) |
|----------|------------------|----------------|---------------------|----------|---------------------|------------|
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 20 | 0.28 | 0.02 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 20 | 0.28 | 0.02 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 20 | 0.28 | 0.02 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 20 | 0.28 | 0.01 | 0.28 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 20 | 0.26 | 0.02 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 20 | 0.26 | 0.02 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 20 | 0.26 | 0.02 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 20 | 0.26 | 0.0 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 20 | 0.26 | 0.0 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 20 | 0.26 | 0.0 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 20 | 0.25 | 0.01 | 0.25 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 20 | 0.25 | 0.01 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 20 | 0.25 | 0.01 | 0.25 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 20 | 0.22 | 0.0 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 20 | 0.22 | 0.0 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 20 | 0.22 | 0.0 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 20 | 0.22 | 0.04 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 20 | 0.22 | 0.04 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 20 | 0.22 | 0.04 | 0.2 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 20 | 0.21 | 0.0 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 20 | 0.21 | 0.0 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 20 | 0.21 | 0.0 | 0.21 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 20 | 0.2 | 0.01 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 20 | 0.2 | 0.01 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 20 | 0.2 | 0.01 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 20 | 0.2 | 0.01 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 20 | 0.2 | 0.01 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 20 | 0.2 | 0.01 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 20 | 0.19 | 0.01 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 20 | 0.19 | 0.01 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 20 | 0.19 | 0.01 | 0.19 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 20 | 0.16 | 0.02 | 0.16 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 20 | 0.14 | 0.02 | 0.14 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 20 | 0.12 | 0.01 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 20 | 0.12 | 0.01 | 0.12 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 19 | 0.21 | 0.05 | 0.21 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 19 | 0.21 | 0.05 | 0.21 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 19 | 0.19 | 0.04 | 0.18 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 19 | 0.19 | 0.04 | 0.18 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 19 | 0.19 | 0.04 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 19 | 0.17 | 0.04 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 19 | 0.17 | 0.04 | 0.16 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 19 | 0.15 | 0.03 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 19 | 0.14 | 0.01 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 19 | 0.14 | 0.01 | 0.14 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 17 | 0.19 | 0.06 | 0.19 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 17 | 0.19 | 0.06 | 0.19 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 17 | 0.15 | 0.03 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 17 | 0.15 | 0.03 | 0.16 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 16 | 0.19 | 0.05 | 0.18 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 16 | 0.16 | 0.04 | 0.16 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 16 | 0.16 | 0.04 | 0.16 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 16 | 0.16 | 0.04 | 0.16 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 15 | 0.21 | 0.06 | 0.2 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 15 | 0.21 | 0.06 | 0.2 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 15 | 0.21 | 0.06 | 0.2 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 15 | 0.17 | 0.04 | 0.19 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 15 | 0.17 | 0.04 | 0.19 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 15 | 0.16 | 0.05 | 0.14 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 15 | 0.16 | 0.04 | 0.15 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 14 | 0.23 | 0.1 | 0.22 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 14 | 0.23 | 0.1 | 0.22 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 14 | 0.23 | 0.1 | 0.22 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 14 | 0.23 | 0.08 | 0.22 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 14 | 0.23 | 0.08 | 0.22 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 14 | 0.23 | 0.08 | 0.22 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 14 | 0.2 | 0.06 | 0.16 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 14 | 0.2 | 0.06 | 0.16 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 14 | 0.2 | 0.06 | 0.16 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 14 | 0.18 | 0.05 | 0.17 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 14 | 0.18 | 0.05 | 0.17 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 14 | 0.12 | 0.01 | 0.12 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 13 | 0.22 | 0.07 | 0.21 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 13 | 0.22 | 0.07 | 0.21 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 13 | 0.22 | 0.07 | 0.21 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 13 | 0.22 | 0.07 | 0.21 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 13 | 0.22 | 0.07 | 0.21 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 13 | 0.22 | 0.07 | 0.21 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 13 | 0.22 | 0.02 | 0.22 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 13 | 0.22 | 0.02 | 0.22 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 13 | 0.22 | 0.02 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 13 | 0.14 | 0.02 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 13 | 0.14 | 0.02 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 13 | 0.14 | 0.02 | 0.14 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 13 | 0.14 | 0.03 | 0.13 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 12 | 0.22 | 0.08 | 0.22 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 12 | 0.22 | 0.08 | 0.22 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 12 | 0.22 | 0.08 | 0.22 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 12 | 0.14 | 0.02 | 0.13 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 11 | 0.21 | 0.03 | 0.22 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 11 | 0.21 | 0.03 | 0.22 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 11 | 0.21 | 0.03 | 0.22 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 11 | 0.18 | 0.04 | 0.17 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 11 | 0.18 | 0.04 | 0.17 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 11 | 0.18 | 0.04 | 0.17 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 11 | 0.15 | 0.03 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 11 | 0.15 | 0.03 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 11 | 0.15 | 0.03 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 11 | 0.15 | 0.03 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 11 | 0.15 | 0.03 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 11 | 0.15 | 0.03 | 0.14 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 11 | 0.13 | 0.01 | 0.13 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 10 | 0.27 | 0.07 | 0.25 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 10 | 0.27 | 0.07 | 0.25 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 10 | 0.27 | 0.07 | 0.25 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 10 | 0.23 | 0.07 | 0.22 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 10 | 0.23 | 0.07 | 0.22 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 10 | 0.23 | 0.07 | 0.22 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 10 | 0.23 | 0.07 | 0.22 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 10 | 0.23 | 0.07 | 0.22 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 10 | 0.23 | 0.07 | 0.22 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 10 | 0.21 | 0.11 | 0.19 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 10 | 0.21 | 0.11 | 0.19 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 10 | 0.18 | 0.04 | 0.18 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 10 | 0.18 | 0.04 | 0.18 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 10 | 0.18 | 0.04 | 0.18 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 10 | 0.16 | 0.04 | 0.15 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 10 | 0.16 | 0.04 | 0.15 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 10 | 0.16 | 0.04 | 0.15 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 10 | 0.14 | 0.04 | 0.15 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 10 | 0.14 | 0.04 | 0.15 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 10 | 0.14 | 0.04 | 0.15 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 9 | 0.23 | 0.0 | 0.23 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 9 | 0.23 | 0.0 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 9 | 0.23 | 0.0 | 0.23 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 9 | 0.21 | 0.1 | 0.17 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 9 | 0.21 | 0.1 | 0.17 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 9 | 0.21 | 0.1 | 0.17 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 9 | 0.2 | 0.05 | 0.2 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 9 | 0.2 | 0.05 | 0.2 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 9 | 0.2 | 0.05 | 0.2 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 9 | 0.18 | 0.05 | 0.17 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 9 | 0.18 | 0.05 | 0.17 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 9 | 0.18 | 0.05 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 9 | 0.17 | 0.03 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 9 | 0.17 | 0.03 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 9 | 0.17 | 0.03 | 0.17 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 9 | 0.16 | 0.05 | 0.16 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 9 | 0.16 | 0.05 | 0.16 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 9 | 0.16 | 0.05 | 0.16 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 9 | 0.14 | 0.04 | 0.13 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 9 | 0.14 | 0.04 | 0.13 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 9 | 0.14 | 0.04 | 0.13 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 9 | 0.14 | 0.03 | 0.13 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 9 | 0.14 | 0.03 | 0.13 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 9 | 0.14 | 0.03 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 9 | 0.14 | 0.01 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 9 | 0.14 | 0.01 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 9 | 0.14 | 0.01 | 0.13 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 9 | 0.13 | 0.02 | 0.13 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 9 | 0.12 | 0.01 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 9 | 0.12 | 0.01 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 9 | 0.12 | 0.01 | 0.11 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 8 | 0.22 | 0.01 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 8 | 0.22 | 0.01 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 8 | 0.22 | 0.01 | 0.23 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 8 | 0.22 | 0.03 | 0.21 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 8 | 0.22 | 0.03 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 8 | 0.2 | 0.05 | 0.18 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 8 | 0.2 | 0.05 | 0.18 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 8 | 0.2 | 0.05 | 0.22 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 8 | 0.2 | 0.05 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 8 | 0.18 | 0.09 | 0.15 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 8 | 0.18 | 0.09 | 0.15 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 8 | 0.18 | 0.09 | 0.15 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 8 | 0.18 | 0.05 | 0.17 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 8 | 0.18 | 0.05 | 0.17 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 8 | 0.18 | 0.05 | 0.17 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 8 | 0.18 | 0.05 | 0.17 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 8 | 0.18 | 0.05 | 0.17 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 8 | 0.18 | 0.05 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 8 | 0.17 | 0.04 | 0.17 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 8 | 0.17 | 0.04 | 0.17 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 8 | 0.17 | 0.06 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 8 | 0.17 | 0.06 | 0.13 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 8 | 0.15 | 0.04 | 0.13 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 8 | 0.15 | 0.04 | 0.13 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 8 | 0.15 | 0.04 | 0.13 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 8 | 0.14 | 0.03 | 0.13 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 8 | 0.14 | 0.03 | 0.13 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 8 | 0.14 | 0.03 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 8 | 0.14 | 0.03 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 8 | 0.14 | 0.03 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 8 | 0.14 | 0.02 | 0.13 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 8 | 0.14 | 0.02 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 8 | 0.14 | 0.02 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 8 | 0.14 | 0.02 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 8 | 0.14 | 0.02 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 8 | 0.14 | 0.02 | 0.13 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 8 | 0.14 | 0.01 | 0.13 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 8 | 0.14 | 0.01 | 0.13 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 8 | 0.14 | 0.01 | 0.13 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 8 | 0.13 | 0.02 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 8 | 0.13 | 0.02 | 0.12 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 8 | 0.13 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 8 | 0.12 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 8 | 0.12 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 8 | 0.12 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 8 | 0.12 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 8 | 0.12 | 0.02 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 8 | 0.12 | 0.02 | 0.12 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 7 | 0.48 | 0.0 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 7 | 0.48 | 0.0 | 0.48 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 7 | 0.24 | 0.08 | 0.26 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 7 | 0.24 | 0.08 | 0.26 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 7 | 0.24 | 0.04 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 7 | 0.24 | 0.04 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 7 | 0.24 | 0.04 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 7 | 0.24 | 0.04 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 7 | 0.24 | 0.04 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 7 | 0.24 | 0.04 | 0.24 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 7 | 0.21 | 0.0 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 7 | 0.21 | 0.0 | 0.21 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 7 | 0.21 | 0.1 | 0.18 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 7 | 0.18 | 0.04 | 0.16 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 7 | 0.18 | 0.04 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 7 | 0.18 | 0.04 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 7 | 0.18 | 0.04 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 7 | 0.18 | 0.04 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 7 | 0.18 | 0.04 | 0.16 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 7 | 0.18 | 0.05 | 0.17 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 7 | 0.17 | 0.04 | 0.18 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 7 | 0.17 | 0.04 | 0.18 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 7 | 0.17 | 0.04 | 0.18 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 7 | 0.15 | 0.02 | 0.15 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 7 | 0.15 | 0.02 | 0.14 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 7 | 0.14 | 0.02 | 0.15 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 7 | 0.14 | 0.02 | 0.15 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 7 | 0.14 | 0.02 | 0.15 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 7 | 0.14 | 0.03 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 7 | 0.14 | 0.03 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 7 | 0.14 | 0.03 | 0.13 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 7 | 0.14 | 0.02 | 0.14 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 7 | 0.14 | 0.02 | 0.14 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 7 | 0.14 | 0.02 | 0.14 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 7 | 0.12 | 0.01 | 0.11 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 7 | 0.12 | 0.01 | 0.11 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 6 | 0.26 | 0.07 | 0.3 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 6 | 0.26 | 0.07 | 0.3 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 6 | 0.26 | 0.07 | 0.3 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 6 | 0.22 | 0.05 | 0.2 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 6 | 0.22 | 0.05 | 0.2 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 6 | 0.22 | 0.05 | 0.2 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 6 | 0.22 | 0.05 | 0.24 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 6 | 0.22 | 0.05 | 0.24 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 6 | 0.22 | 0.05 | 0.24 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 6 | 0.22 | 0.09 | 0.2 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 6 | 0.22 | 0.09 | 0.2 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 6 | 0.22 | 0.09 | 0.2 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 6 | 0.22 | 0.09 | 0.2 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 6 | 0.22 | 0.09 | 0.2 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 6 | 0.22 | 0.09 | 0.2 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 6 | 0.21 | 0.09 | 0.19 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 6 | 0.21 | 0.09 | 0.19 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 6 | 0.21 | 0.05 | 0.2 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 6 | 0.21 | 0.05 | 0.2 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 6 | 0.19 | 0.09 | 0.16 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 6 | 0.19 | 0.09 | 0.16 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 6 | 0.19 | 0.09 | 0.16 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 6 | 0.18 | 0.06 | 0.18 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 6 | 0.18 | 0.06 | 0.18 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 6 | 0.18 | 0.06 | 0.18 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 6 | 0.18 | 0.06 | 0.18 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 6 | 0.18 | 0.06 | 0.18 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 6 | 0.17 | 0.03 | 0.16 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 6 | 0.17 | 0.03 | 0.16 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 6 | 0.17 | 0.03 | 0.16 |
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 6 | 0.16 | 0.02 | 0.16 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 6 | 0.16 | 0.02 | 0.16 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 6 | 0.16 | 0.02 | 0.16 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 6 | 0.15 | 0.04 | 0.14 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 6 | 0.15 | 0.04 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 6 | 0.15 | 0.05 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 6 | 0.15 | 0.04 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 6 | 0.15 | 0.04 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 6 | 0.15 | 0.04 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 6 | 0.14 | 0.02 | 0.13 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 6 | 0.14 | 0.02 | 0.13 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 6 | 0.14 | 0.02 | 0.13 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 6 | 0.13 | 0.02 | 0.12 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 6 | 0.13 | 0.02 | 0.12 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 6 | 0.13 | 0.02 | 0.12 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 6 | 0.13 | 0.02 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 6 | 0.13 | 0.02 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 6 | 0.13 | 0.02 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 6 | 0.13 | 0.02 | 0.12 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 6 | 0.13 | 0.01 | 0.13 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 6 | 0.13 | 0.01 | 0.13 |
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 6 | 0.13 | 0.01 | 0.13 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 6 | 0.13 | 0.01 | 0.12 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 6 | 0.13 | 0.01 | 0.12 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 6 | 0.13 | 0.01 | 0.12 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 6 | 0.12 | 0.01 | 0.12 |
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 5 | 0.33 | 0.06 | 0.35 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 5 | 0.2 | 0.04 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 5 | 0.2 | 0.04 | 0.22 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 5 | 0.2 | 0.03 | 0.21 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 5 | 0.2 | 0.03 | 0.21 |
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 5 | 0.2 | 0.03 | 0.21 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 5 | 0.19 | 0.06 | 0.16 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 5 | 0.19 | 0.06 | 0.16 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 5 | 0.19 | 0.06 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 5 | 0.18 | 0.05 | 0.18 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 5 | 0.18 | 0.05 | 0.18 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 5 | 0.17 | 0.03 | 0.17 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 5 | 0.17 | 0.03 | 0.17 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 5 | 0.17 | 0.03 | 0.17 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 5 | 0.16 | 0.03 | 0.14 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 5 | 0.16 | 0.03 | 0.14 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 5 | 0.16 | 0.03 | 0.14 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 5 | 0.15 | 0.04 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 5 | 0.15 | 0.04 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 5 | 0.15 | 0.04 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 5 | 0.15 | 0.04 | 0.13 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 5 | 0.15 | 0.03 | 0.15 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 5 | 0.15 | 0.03 | 0.15 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 5 | 0.15 | 0.03 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 5 | 0.15 | 0.03 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 5 | 0.15 | 0.03 | 0.13 |
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 5 | 0.14 | 0.01 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 5 | 0.14 | 0.01 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 5 | 0.14 | 0.01 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 5 | 0.14 | 0.02 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 5 | 0.14 | 0.02 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 5 | 0.14 | 0.02 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 5 | 0.14 | 0.02 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 5 | 0.14 | 0.02 | 0.14 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 5 | 0.14 | 0.03 | 0.14 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 5 | 0.14 | 0.03 | 0.14 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 5 | 0.14 | 0.03 | 0.14 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 5 | 0.14 | 0.02 | 0.14 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 5 | 0.13 | 0.02 | 0.12 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 5 | 0.13 | 0.02 | 0.12 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 5 | 0.13 | 0.02 | 0.13 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 5 | 0.13 | 0.02 | 0.13 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 5 | 0.13 | 0.02 | 0.14 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 5 | 0.13 | 0.02 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 5 | 0.13 | 0.02 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 5 | 0.13 | 0.02 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 5 | 0.13 | 0.02 | 0.12 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 5 | 0.13 | 0.02 | 0.12 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 5 | 0.13 | 0.02 | 0.12 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 5 | 0.13 | 0.03 | 0.13 |
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 5 | 0.13 | 0.03 | 0.13 |
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 5 | 0.13 | 0.03 | 0.13 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 5 | 0.13 | 0.02 | 0.12 |
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 5 | 0.13 | 0.02 | 0.12 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 5 | 0.13 | 0.02 | 0.12 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 5 | 0.13 | 0.03 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 5 | 0.13 | 0.03 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 5 | 0.13 | 0.03 | 0.11 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 5 | 0.13 | 0.02 | 0.11 |
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 5 | 0.13 | 0.02 | 0.11 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 5 | 0.13 | 0.02 | 0.11 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 5 | 0.12 | 0.01 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 5 | 0.12 | 0.01 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 5 | 0.12 | 0.01 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 5 | 0.12 | 0.01 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 5 | 0.12 | 0.01 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 5 | 0.12 | 0.01 | 0.13 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 5 | 0.12 | 0.02 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 5 | 0.12 | 0.02 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 5 | 0.12 | 0.02 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 5 | 0.12 | 0.02 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 5 | 0.12 | 0.02 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 5 | 0.12 | 0.02 | 0.11 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD1 | 4 | 0.35 | 0.12 | 0.41 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD2 | 4 | 0.35 | 0.12 | 0.41 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD1 | 4 | 0.35 | 0.12 | 0.41 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD2 | 4 | 0.35 | 0.12 | 0.41 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD1 | 4 | 0.35 | 0.12 | 0.41 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD2 | 4 | 0.35 | 0.12 | 0.41 |
| (1,578) | 1:A:34:GLY:HA2 | 1:A:36:ASN:H | 4 | 0.29 | 0.12 | 0.22 |
| (1,578) | 1:A:34:GLY:HA3 | 1:A:36:ASN:H | 4 | 0.29 | 0.12 | 0.22 |
| (1,963) | 1:A:92:ASN:HA | 1:A:92:ASN:HD22 | 4 | 0.29 | 0.01 | 0.29 |
| (1,678) | 1:A:48:ILE:HD11 | 1:A:48:ILE:H | 4 | 0.27 | 0.05 | 0.26 |
| (1,678) | 1:A:48:ILE:HD12 | 1:A:48:ILE:H | 4 | 0.27 | 0.05 | 0.26 |
| (1,678) | 1:A:48:ILE:HD13 | 1:A:48:ILE:H | 4 | 0.27 | 0.05 | 0.26 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB2 | 4 | 0.23 | 0.04 | 0.24 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB3 | 4 | 0.23 | 0.04 | 0.24 |
| (1,425) | 1:A:62:LEU:HD11 | 1:A:43:LEU:HA | 4 | 0.21 | 0.05 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,425) | 1:A:62:LEU:HD12 | 1:A:43:LEU:HA | 4 | 0.21 | 0.05 | 0.2 |
| (1,425) | 1:A:62:LEU:HD13 | 1:A:43:LEU:HA | 4 | 0.21 | 0.05 | 0.2 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE1 | 4 | 0.19 | 0.04 | 0.17 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE2 | 4 | 0.19 | 0.04 | 0.17 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE1 | 4 | 0.19 | 0.04 | 0.17 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE2 | 4 | 0.19 | 0.04 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE1 | 4 | 0.19 | 0.04 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE2 | 4 | 0.19 | 0.04 | 0.17 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD11 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD12 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD13 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD11 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD12 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD13 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD11 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD12 | 4 | 0.19 | 0.07 | 0.16 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD13 | 4 | 0.19 | 0.07 | 0.16 |
| (1,40) | 1:A:33:LEU:HD21 | 1:A:39:VAL:H | 4 | 0.19 | 0.06 | 0.16 |
| (1,40) | 1:A:33:LEU:HD22 | 1:A:39:VAL:H | 4 | 0.19 | 0.06 | 0.16 |
| (1,40) | 1:A:33:LEU:HD23 | 1:A:39:VAL:H | 4 | 0.19 | 0.06 | 0.16 |
| (1,506) | 1:A:23:TRP:HD1 | 1:A:23:TRP:HA | 4 | 0.18 | 0.04 | 0.18 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD21 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD22 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD23 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD21 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD22 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD23 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD21 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD22 | 4 | 0.18 | 0.04 | 0.2 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD23 | 4 | 0.18 | 0.04 | 0.2 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB1 | 4 | 0.18 | 0.08 | 0.14 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB2 | 4 | 0.18 | 0.08 | 0.14 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB3 | 4 | 0.18 | 0.08 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB1 | 4 | 0.18 | 0.08 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB2 | 4 | 0.18 | 0.08 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB3 | 4 | 0.18 | 0.08 | 0.14 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD2 | 4 | 0.16 | 0.05 | 0.14 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD3 | 4 | 0.16 | 0.05 | 0.14 |
| (1,862) | 1:A:74:ASN:HB2 | 1:A:138:ASN:HD21 | 4 | 0.16 | 0.02 | 0.16 |
| (1,862) | 1:A:74:ASN:HB3 | 1:A:138:ASN:HD21 | 4 | 0.16 | 0.02 | 0.16 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG21 | 4 | 0.16 | 0.04 | 0.15 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG22 | 4 | 0.16 | 0.04 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG23 | 4 | 0.16 | 0.04 | 0.15 |
| (1,669) | 1:A:47:ARG:HD2 | 1:A:48:ILE:H | 4 | 0.15 | 0.04 | 0.14 |
| (1,669) | 1:A:47:ARG:HD3 | 1:A:48:ILE:H | 4 | 0.15 | 0.04 | 0.14 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG21 | 4 | 0.15 | 0.03 | 0.15 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG22 | 4 | 0.15 | 0.03 | 0.15 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG23 | 4 | 0.15 | 0.03 | 0.15 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB1 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB2 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB3 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB1 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB2 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB3 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB1 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB2 | 4 | 0.14 | 0.02 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB3 | 4 | 0.14 | 0.02 | 0.14 |
| (1,1159) | 1:A:109:ASN:HB2 | 1:A:130:PRO:HA | 4 | 0.14 | 0.02 | 0.14 |
| (1,1159) | 1:A:109:ASN:HB3 | 1:A:130:PRO:HA | 4 | 0.14 | 0.02 | 0.14 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG21 | 4 | 0.14 | 0.04 | 0.12 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG22 | 4 | 0.14 | 0.04 | 0.12 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG23 | 4 | 0.14 | 0.04 | 0.12 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG21 | 4 | 0.14 | 0.04 | 0.12 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG22 | 4 | 0.14 | 0.04 | 0.12 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG23 | 4 | 0.14 | 0.04 | 0.12 |
| (1,160) | 1:A:156:ILE:HG21 | 1:A:153:ALA:HA | 4 | 0.14 | 0.01 | 0.14 |
| (1,160) | 1:A:156:ILE:HG22 | 1:A:153:ALA:HA | 4 | 0.14 | 0.01 | 0.14 |
| (1,160) | 1:A:156:ILE:HG23 | 1:A:153:ALA:HA | 4 | 0.14 | 0.01 | 0.14 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD1 | 4 | 0.13 | 0.02 | 0.12 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD2 | 4 | 0.13 | 0.02 | 0.12 |
| (1,232) | 1:A:92:ASN:HB2 | 1:A:93:LEU:HA | 4 | 0.13 | 0.01 | 0.14 |
| (1,232) | 1:A:92:ASN:HB3 | 1:A:93:LEU:HA | 4 | 0.13 | 0.01 | 0.14 |
| (1,748) | 1:A:62:LEU:HD11 | 1:A:45:VAL:HA | 4 | 0.13 | 0.03 | 0.12 |
| (1,748) | 1:A:62:LEU:HD12 | 1:A:45:VAL:HA | 4 | 0.13 | 0.03 | 0.12 |
| (1,748) | 1:A:62:LEU:HD13 | 1:A:45:VAL:HA | 4 | 0.13 | 0.03 | 0.12 |
| (1,1248) | 1:A:140:PHE:HA | 1:A:102:SER:H | 4 | 0.13 | 0.01 | 0.13 |
| (1,334) | 1:A:26:PRO:HB2 | 1:A:31:ALA:H | 4 | 0.13 | 0.02 | 0.12 |
| (1,334) | 1:A:26:PRO:HB3 | 1:A:31:ALA:H | 4 | 0.13 | 0.02 | 0.12 |
| (1,1633) | 1:A:156:ILE:HB | 1:A:155:THR:H | 4 | 0.13 | 0.01 | 0.12 |
| (1,122) | 1:A:114:GLN:HA | 1:A:119:GLY:H | 4 | 0.12 | 0.02 | 0.11 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB2 | 4 | 0.12 | 0.01 | 0.12 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB3 | 4 | 0.12 | 0.01 | 0.12 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB2 | 4 | 0.12 | 0.01 | 0.12 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB3 | 4 | 0.12 | 0.01 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB2 | 4 | 0.12 | 0.01 | 0.12 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB3 | 4 | 0.12 | 0.01 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD11 | 4 | 0.12 | 0.01 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD12 | 4 | 0.12 | 0.01 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD13 | 4 | 0.12 | 0.01 | 0.12 |
| (1,1310) | 1:A:156:ILE:HB | 1:A:157:GLU:H | 4 | 0.12 | 0.0 | 0.12 |
| (1,1854) | 1:A:146:ASP:H | 1:A:147:GLN:H | 4 | 0.12 | 0.01 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD1 | 4 | 0.11 | 0.0 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD2 | 4 | 0.11 | 0.0 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD1 | 4 | 0.11 | 0.0 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD2 | 4 | 0.11 | 0.0 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD1 | 4 | 0.11 | 0.0 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD2 | 4 | 0.11 | 0.0 | 0.11 |
| (1,1496) | 1:A:161:GLY:H | 1:A:159:LEU:H | 3 | 0.32 | 0.01 | 0.33 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD11 | 3 | 0.26 | 0.08 | 0.31 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD12 | 3 | 0.26 | 0.08 | 0.31 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD13 | 3 | 0.26 | 0.08 | 0.31 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB1 | 3 | 0.25 | 0.02 | 0.24 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB2 | 3 | 0.25 | 0.02 | 0.24 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB3 | 3 | 0.25 | 0.02 | 0.24 |
| (1,55) | 1:A:45:VAL:HA | 1:A:62:LEU:H | 3 | 0.22 | 0.04 | 0.22 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD11 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD12 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD13 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD11 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD12 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD13 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD11 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD12 | 3 | 0.22 | 0.15 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD13 | 3 | 0.22 | 0.15 | 0.13 |
| (1,1005) | 1:A:98:ILE:HG21 | 1:A:143:PHE:H | 3 | 0.22 | 0.13 | 0.15 |
| (1,1005) | 1:A:98:ILE:HG22 | 1:A:143:PHE:H | 3 | 0.22 | 0.13 | 0.15 |
| (1,1005) | 1:A:98:ILE:HG23 | 1:A:143:PHE:H | 3 | 0.22 | 0.13 | 0.15 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB2 | 3 | 0.22 | 0.04 | 0.21 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB3 | 3 | 0.22 | 0.04 | 0.21 |
| (1,1736) | 1:A:29:CYS:H | 1:A:30:GLU:HA | 3 | 0.21 | 0.01 | 0.21 |
| (1,54) | 1:A:23:TRP:H | 1:A:24:LEU:H | 3 | 0.2 | 0.06 | 0.18 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD1 | 3 | 0.19 | 0.04 | 0.21 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD2 | 3 | 0.19 | 0.04 | 0.21 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB2 | 3 | 0.18 | 0.1 | 0.12 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB3 | 3 | 0.18 | 0.1 | 0.12 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB2 | 3 | 0.18 | 0.1 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB3 | 3 | 0.18 | 0.1 | 0.12 |
| (1,676) | 1:A:48:ILE:HB | 1:A:48:ILE:H | 3 | 0.17 | 0.04 | 0.2 |
| (1,1801) | 1:A:41:LYS:HD2 | 1:A:42:VAL:H | 3 | 0.17 | 0.06 | 0.14 |
| (1,1801) | 1:A:41:LYS:HD3 | 1:A:42:VAL:H | 3 | 0.17 | 0.06 | 0.14 |
| (1,462) | 1:A:8:SER:HB2 | 1:A:10:ASP:H | 3 | 0.16 | 0.04 | 0.14 |
| (1,462) | 1:A:8:SER:HB3 | 1:A:10:ASP:H | 3 | 0.16 | 0.04 | 0.14 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB2 | 3 | 0.16 | 0.04 | 0.16 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB3 | 3 | 0.16 | 0.04 | 0.16 |
| (1,1016) | 1:A:99:MET:HE1 | 1:A:143:PHE:HZ | 3 | 0.16 | 0.04 | 0.15 |
| (1,1016) | 1:A:99:MET:HE2 | 1:A:143:PHE:HZ | 3 | 0.16 | 0.04 | 0.15 |
| (1,1016) | 1:A:99:MET:HE3 | 1:A:143:PHE:HZ | 3 | 0.16 | 0.04 | 0.15 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG2 | 3 | 0.16 | 0.07 | 0.11 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG3 | 3 | 0.16 | 0.07 | 0.11 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD1 | 3 | 0.16 | 0.04 | 0.14 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD2 | 3 | 0.16 | 0.04 | 0.14 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD1 | 3 | 0.16 | 0.04 | 0.14 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD2 | 3 | 0.16 | 0.04 | 0.14 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD1 | 3 | 0.16 | 0.04 | 0.14 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD2 | 3 | 0.16 | 0.04 | 0.14 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE2 | 3 | 0.15 | 0.06 | 0.11 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE3 | 3 | 0.15 | 0.06 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE2 | 3 | 0.15 | 0.06 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE3 | 3 | 0.15 | 0.06 | 0.11 |
| (1,374) | 1:A:62:LEU:HD21 | 1:A:69:ILE:H | 3 | 0.15 | 0.05 | 0.11 |
| (1,374) | 1:A:62:LEU:HD22 | 1:A:69:ILE:H | 3 | 0.15 | 0.05 | 0.11 |
| (1,374) | 1:A:62:LEU:HD23 | 1:A:69:ILE:H | 3 | 0.15 | 0.05 | 0.11 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD2 | 3 | 0.15 | 0.03 | 0.15 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD3 | 3 | 0.15 | 0.03 | 0.15 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD2 | 3 | 0.15 | 0.03 | 0.15 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD3 | 3 | 0.15 | 0.03 | 0.15 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD2 | 3 | 0.15 | 0.03 | 0.15 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD3 | 3 | 0.15 | 0.03 | 0.15 |
| (1,637) | 1:A:42:VAL:HG21 | 1:A:99:MET:HA | 3 | 0.14 | 0.02 | 0.14 |
| (1,637) | 1:A:42:VAL:HG22 | 1:A:99:MET:HA | 3 | 0.14 | 0.02 | 0.14 |
| (1,637) | 1:A:42:VAL:HG23 | 1:A:99:MET:HA | 3 | 0.14 | 0.02 | 0.14 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD11 | 3 | 0.14 | 0.02 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD12 | 3 | 0.14 | 0.02 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD13 | 3 | 0.14 | 0.02 | 0.12 |
| (1,1303) | 1:A:155:THR:HB | 1:A:156:ILE:H | 3 | 0.14 | 0.02 | 0.14 |
| (1,1918) | 1:A:13:ARG:H | 1:A:12:VAL:HB | 3 | 0.14 | 0.02 | 0.12 |
| (1,1596) | 1:A:102:SER:H | 1:A:101:HIS:HD2 | 3 | 0.14 | 0.03 | 0.12 |
| (1,655) | 1:A:42:VAL:HG21 | 1:A:100:ILE:H | 3 | 0.13 | 0.02 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,655) | 1:A:42:VAL:HG22 | 1:A:100:ILE:H | 3 | 0.13 | 0.02 | 0.14 |
| (1,655) | 1:A:42:VAL:HG23 | 1:A:100:ILE:H | 3 | 0.13 | 0.02 | 0.14 |
| (1,701) | 1:A:55:LEU:HD21 | 1:A:55:LEU:H | 3 | 0.13 | 0.0 | 0.13 |
| (1,701) | 1:A:55:LEU:HD22 | 1:A:55:LEU:H | 3 | 0.13 | 0.0 | 0.13 |
| (1,701) | 1:A:55:LEU:HD23 | 1:A:55:LEU:H | 3 | 0.13 | 0.0 | 0.13 |
| (1,854) | 1:A:73:ALA:HB1 | 1:A:140:PHE:HZ | 3 | 0.13 | 0.02 | 0.12 |
| (1,854) | 1:A:73:ALA:HB2 | 1:A:140:PHE:HZ | 3 | 0.13 | 0.02 | 0.12 |
| (1,854) | 1:A:73:ALA:HB3 | 1:A:140:PHE:HZ | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD1 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD2 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD1 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD2 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD1 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD2 | 3 | 0.13 | 0.02 | 0.12 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD11 | 3 | 0.13 | 0.02 | 0.14 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD12 | 3 | 0.13 | 0.02 | 0.14 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD13 | 3 | 0.13 | 0.02 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD21 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD22 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD23 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD21 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD22 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD23 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD21 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD22 | 3 | 0.13 | 0.01 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD23 | 3 | 0.13 | 0.01 | 0.14 |
| (1,364) | 1:A:47:ARG:HD2 | 1:A:61:CYS:H | 3 | 0.13 | 0.03 | 0.11 |
| (1,364) | 1:A:47:ARG:HD3 | 1:A:61:CYS:H | 3 | 0.13 | 0.03 | 0.11 |
| (1,974) | 1:A:45:VAL:HG21 | 1:A:95:ASN:H | 3 | 0.13 | 0.02 | 0.12 |
| (1,974) | 1:A:45:VAL:HG22 | 1:A:95:ASN:H | 3 | 0.13 | 0.02 | 0.12 |
| (1,974) | 1:A:45:VAL:HG23 | 1:A:95:ASN:H | 3 | 0.13 | 0.02 | 0.12 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD1 | 3 | 0.13 | 0.01 | 0.13 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD2 | 3 | 0.13 | 0.01 | 0.13 |
| (1,2180) | 1:A:140:PHE:HD1 | 1:A:142:MET:H | 3 | 0.13 | 0.02 | 0.12 |
| (1,2180) | 1:A:140:PHE:HD2 | 1:A:142:MET:H | 3 | 0.13 | 0.02 | 0.12 |
| (1,2258) | 1:A:137:ILE:HA | 1:A:104:THR:H | 3 | 0.13 | 0.01 | 0.13 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD11 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD12 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD13 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD11 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD12 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD13 | 3 | 0.12 | 0.0 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD11 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD12 | 3 | 0.12 | 0.0 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD13 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG21 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG22 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG23 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG21 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG22 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG23 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG21 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG22 | 3 | 0.12 | 0.0 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG23 | 3 | 0.12 | 0.0 | 0.12 |
| (1,822) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,822) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,822) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,306) | 1:A:108:TYR:HE1 | 1:A:112:GLN:HA | 3 | 0.11 | 0.0 | 0.11 |
| (1,306) | 1:A:108:TYR:HE2 | 1:A:112:GLN:HA | 3 | 0.11 | 0.0 | 0.11 |
| (1,412) | 1:A:137:ILE:HD11 | 1:A:71:ALA:H | 3 | 0.11 | 0.0 | 0.11 |
| (1,412) | 1:A:137:ILE:HD12 | 1:A:71:ALA:H | 3 | 0.11 | 0.0 | 0.11 |
| (1,412) | 1:A:137:ILE:HD13 | 1:A:71:ALA:H | 3 | 0.11 | 0.0 | 0.11 |
| (1,354) | 1:A:158:PHE:HA | 1:A:160:TYR:H | 2 | 0.34 | 0.04 | 0.34 |
| (1,1851) | 1:A:146:ASP:H | 1:A:145:ARG:H | 2 | 0.34 | 0.05 | 0.34 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD1 | 2 | 0.28 | 0.07 | 0.28 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD2 | 2 | 0.28 | 0.07 | 0.28 |
| (1,1820) | 1:A:175:SER:H | 1:A:174:PHE:H | 2 | 0.24 | 0.11 | 0.24 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG2 | 2 | 0.22 | 0.11 | 0.22 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG3 | 2 | 0.22 | 0.11 | 0.22 |
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB2 | 2 | 0.22 | 0.04 | 0.22 |
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB3 | 2 | 0.22 | 0.04 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD11 | 2 | 0.22 | 0.0 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD12 | 2 | 0.22 | 0.0 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD13 | 2 | 0.22 | 0.0 | 0.22 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD11 | 2 | 0.22 | 0.01 | 0.22 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD12 | 2 | 0.22 | 0.01 | 0.22 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD13 | 2 | 0.22 | 0.01 | 0.22 |
| (1,1758) | 1:A:54:THR:HG21 | 1:A:55:LEU:H | 2 | 0.22 | 0.06 | 0.22 |
| (1,1758) | 1:A:54:THR:HG22 | 1:A:55:LEU:H | 2 | 0.22 | 0.06 | 0.22 |
| (1,1758) | 1:A:54:THR:HG23 | 1:A:55:LEU:H | 2 | 0.22 | 0.06 | 0.22 |
| (1,1621) | 1:A:91:GLN:HE21 | 1:A:88:ARG:HA | 2 | 0.21 | 0.06 | 0.21 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG2 | 2 | 0.21 | 0.02 | 0.21 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG3 | 2 | 0.21 | 0.02 | 0.21 |
| (1,520) | 1:A:24:LEU:HD21 | 1:A:23:TRP:HZ2 | 2 | 0.21 | 0.08 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,520) | 1:A:24:LEU:HD22 | 1:A:23:TRP:HZ2 | 2 | 0.21 | 0.08 | 0.21 |
| (1,520) | 1:A:24:LEU:HD23 | 1:A:23:TRP:HZ2 | 2 | 0.21 | 0.08 | 0.21 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD2 | 2 | 0.2 | 0.02 | 0.2 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD3 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB2 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB3 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB2 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB3 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB2 | 2 | 0.2 | 0.02 | 0.2 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB3 | 2 | 0.2 | 0.02 | 0.2 |
| (1,1107) | 1:A:113:VAL:HG21 | 1:A:114:GLN:HE22 | 2 | 0.2 | 0.06 | 0.2 |
| (1,1107) | 1:A:113:VAL:HG22 | 1:A:114:GLN:HE22 | 2 | 0.2 | 0.06 | 0.2 |
| (1,1107) | 1:A:113:VAL:HG23 | 1:A:114:GLN:HE22 | 2 | 0.2 | 0.06 | 0.2 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG2 | 2 | 0.19 | 0.06 | 0.19 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG3 | 2 | 0.19 | 0.06 | 0.19 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG21 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG22 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG23 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG21 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG22 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG23 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG21 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG22 | 2 | 0.19 | 0.02 | 0.19 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG23 | 2 | 0.19 | 0.02 | 0.19 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD1 | 2 | 0.19 | 0.04 | 0.19 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD2 | 2 | 0.19 | 0.04 | 0.19 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD1 | 2 | 0.19 | 0.04 | 0.19 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD2 | 2 | 0.19 | 0.04 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD21 | 2 | 0.19 | 0.0 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD22 | 2 | 0.19 | 0.0 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD23 | 2 | 0.19 | 0.0 | 0.19 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE1 | 2 | 0.18 | 0.02 | 0.18 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE2 | 2 | 0.18 | 0.02 | 0.18 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE1 | 2 | 0.18 | 0.02 | 0.18 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE2 | 2 | 0.18 | 0.02 | 0.18 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD1 | 2 | 0.18 | 0.02 | 0.18 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD2 | 2 | 0.18 | 0.02 | 0.18 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB2 | 2 | 0.18 | 0.06 | 0.18 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB3 | 2 | 0.18 | 0.06 | 0.18 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB2 | 2 | 0.18 | 0.06 | 0.18 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB3 | 2 | 0.18 | 0.06 | 0.18 |
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB2 | 2 | 0.18 | 0.06 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB3 | 2 | 0.18 | 0.06 | 0.18 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD2 | 2 | 0.18 | 0.04 | 0.18 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD3 | 2 | 0.18 | 0.04 | 0.18 |
| (1,615) | 1:A:41:LYS:HD2 | 1:A:41:LYS:HA | 2 | 0.18 | 0.04 | 0.18 |
| (1,615) | 1:A:41:LYS:HD3 | 1:A:41:LYS:HA | 2 | 0.18 | 0.04 | 0.18 |
| (1,703) | 1:A:55:LEU:HG | 1:A:55:LEU:H | 2 | 0.18 | 0.04 | 0.18 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD11 | 2 | 0.18 | 0.03 | 0.18 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD12 | 2 | 0.18 | 0.03 | 0.18 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD13 | 2 | 0.18 | 0.03 | 0.18 |
| (1,284) | 1:A:39:VAL:HG21 | 1:A:40:ASP:HA | 2 | 0.17 | 0.06 | 0.17 |
| (1,284) | 1:A:39:VAL:HG22 | 1:A:40:ASP:HA | 2 | 0.17 | 0.06 | 0.17 |
| (1,284) | 1:A:39:VAL:HG23 | 1:A:40:ASP:HA | 2 | 0.17 | 0.06 | 0.17 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG2 | 2 | 0.17 | 0.02 | 0.17 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG3 | 2 | 0.17 | 0.02 | 0.17 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB2 | 2 | 0.17 | 0.02 | 0.17 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB3 | 2 | 0.17 | 0.02 | 0.17 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD11 | 2 | 0.16 | 0.0 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD12 | 2 | 0.16 | 0.0 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD13 | 2 | 0.16 | 0.0 | 0.16 |
| (1,1482) | 1:A:121:LYS:HE2 | 1:A:114:GLN:HE22 | 2 | 0.16 | 0.04 | 0.16 |
| (1,1482) | 1:A:121:LYS:HE3 | 1:A:114:GLN:HE22 | 2 | 0.16 | 0.04 | 0.16 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB2 | 2 | 0.16 | 0.05 | 0.16 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB3 | 2 | 0.16 | 0.05 | 0.16 |
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG2 | 2 | 0.15 | 0.02 | 0.15 |
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG3 | 2 | 0.15 | 0.02 | 0.15 |
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD3 | 2 | 0.15 | 0.0 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD3 | 2 | 0.15 | 0.0 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD3 | 2 | 0.15 | 0.0 | 0.15 |
| (1,341) | 1:A:20:MET:HE1 | 1:A:66:ASN:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,341) | 1:A:20:MET:HE2 | 1:A:66:ASN:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,341) | 1:A:20:MET:HE3 | 1:A:66:ASN:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,499) | 1:A:20:MET:HE1 | 1:A:65:ALA:HA | 2 | 0.15 | 0.04 | 0.15 |
| (1,499) | 1:A:20:MET:HE2 | 1:A:65:ALA:HA | 2 | 0.15 | 0.04 | 0.15 |
| (1,499) | 1:A:20:MET:HE3 | 1:A:65:ALA:HA | 2 | 0.15 | 0.04 | 0.15 |
| (1,601) | 1:A:39:VAL:HG11 | 1:A:39:VAL:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,601) | 1:A:39:VAL:HG12 | 1:A:39:VAL:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,601) | 1:A:39:VAL:HG13 | 1:A:39:VAL:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,359) | 1:A:42:VAL:HB | 1:A:20:MET:HA | 2 | 0.14 | 0.03 | 0.14 |
| (1,150) | 1:A:166:ILE:HG21 | 1:A:170:ILE:H | 2 | 0.14 | 0.01 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,150) | 1:A:166:ILE:HG22 | 1:A:170:ILE:H | 2 | 0.14 | 0.01 | 0.14 |
| (1,150) | 1:A:166:ILE:HG23 | 1:A:170:ILE:H | 2 | 0.14 | 0.01 | 0.14 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD21 | 2 | 0.14 | 0.01 | 0.14 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD22 | 2 | 0.14 | 0.01 | 0.14 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD21 | 2 | 0.14 | 0.01 | 0.14 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD22 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD1 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD1 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD1 | 2 | 0.14 | 0.01 | 0.14 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD21 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD22 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD23 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD21 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD22 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD23 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD21 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD22 | 2 | 0.14 | 0.02 | 0.14 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD23 | 2 | 0.14 | 0.02 | 0.14 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD1 | 2 | 0.14 | 0.01 | 0.14 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD1 | 2 | 0.14 | 0.01 | 0.14 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB1 | 2 | 0.14 | 0.02 | 0.14 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB2 | 2 | 0.14 | 0.02 | 0.14 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB3 | 2 | 0.14 | 0.02 | 0.14 |
| (1,1726) | 1:A:166:ILE:HA | 1:A:171:GLU:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD21 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD21 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD21 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG21 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG21 | 2 | 0.13 | 0.02 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG21 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG22 | 2 | 0.13 | 0.02 | 0.13 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG23 | 2 | 0.13 | 0.02 | 0.13 |
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD1 | 2 | 0.13 | 0.02 | 0.13 |
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD2 | 2 | 0.13 | 0.02 | 0.13 |
| (1,164) | 1:A:156:ILE:HD11 | 1:A:66:ASN:HA | 2 | 0.12 | 0.02 | 0.12 |
| (1,164) | 1:A:156:ILE:HD12 | 1:A:66:ASN:HA | 2 | 0.12 | 0.02 | 0.12 |
| (1,164) | 1:A:156:ILE:HD13 | 1:A:66:ASN:HA | 2 | 0.12 | 0.02 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG21 | 2 | 0.12 | 0.01 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG22 | 2 | 0.12 | 0.01 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG23 | 2 | 0.12 | 0.01 | 0.12 |
| (1,680) | 1:A:48:ILE:HD11 | 1:A:90:THR:HA | 2 | 0.12 | 0.01 | 0.12 |
| (1,680) | 1:A:48:ILE:HD12 | 1:A:90:THR:HA | 2 | 0.12 | 0.01 | 0.12 |
| (1,680) | 1:A:48:ILE:HD13 | 1:A:90:THR:HA | 2 | 0.12 | 0.01 | 0.12 |
| (1,756) | 1:A:64:ASP:HA | 1:A:23:TRP:HE1 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1999) | 1:A:149:ILE:HD11 | 1:A:149:ILE:H | 2 | 0.12 | 0.02 | 0.12 |
| (1,1999) | 1:A:149:ILE:HD12 | 1:A:149:ILE:H | 2 | 0.12 | 0.02 | 0.12 |
| (1,1999) | 1:A:149:ILE:HD13 | 1:A:149:ILE:H | 2 | 0.12 | 0.02 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB1 | 1:A:67:TYR:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB2 | 1:A:67:TYR:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB3 | 1:A:67:TYR:H | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD1 | 2 | 0.12 | 0.0 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD1 | 2 | 0.12 | 0.0 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD1 | 2 | 0.12 | 0.0 | 0.12 |
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE1 | 2 | 0.12 | 0.0 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE1 | 2 | 0.12 | 0.01 | 0.12 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,50) | 1:A:150:LEU:HD21 | 1:A:64:ASP:HA | 2 | 0.12 | 0.0 | 0.12 |
| (1,50) | 1:A:150:LEU:HD22 | 1:A:64:ASP:HA | 2 | 0.12 | 0.0 | 0.12 |
| (1,50) | 1:A:150:LEU:HD23 | 1:A:64:ASP:HA | 2 | 0.12 | 0.0 | 0.12 |

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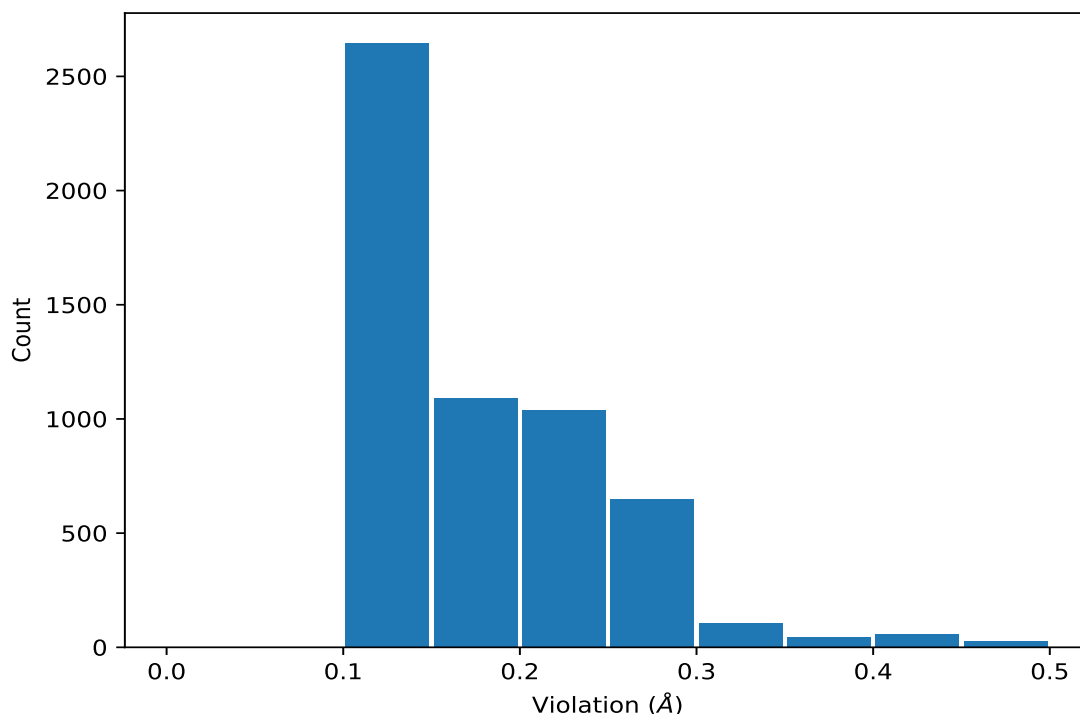
| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|---------|------------------|----------------|---------------------|----------|---------------------|------------|
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,89) | 1:A:135:LEU:HD11 | 1:A:23:TRP:HZ3 | 2 | 0.11 | 0.0 | 0.11 |
| (1,89) | 1:A:135:LEU:HD12 | 1:A:23:TRP:HZ3 | 2 | 0.11 | 0.0 | 0.11 |
| (1,89) | 1:A:135:LEU:HD13 | 1:A:23:TRP:HZ3 | 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) |
|----------|-----------------|------------------|----------|---------------|
| (1,578) | 1:A:34:GLY:HA2 | 1:A:36:ASN:H | 18 | 0.5 |
| (1,578) | 1:A:34:GLY:HA3 | 1:A:36:ASN:H | 18 | 0.5 |
| (1,1850) | 1:A:172:GLN:H | 1:A:173:GLU:H | 20 | 0.49 |
| (1,1564) | 1:A:74:ASN:H | 1:A:137:ILE:HG12 | 16 | 0.49 |
| (1,1564) | 1:A:74:ASN:H | 1:A:137:ILE:HG13 | 16 | 0.49 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 1 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 1 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 2 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 2 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 6 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 6 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 8 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 8 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 12 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 12 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 15 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 15 | 0.48 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG2 | 4 | 0.47 |
| (1,526) | 1:A:26:PRO:HA | 1:A:26:PRO:HG3 | 4 | 0.47 |
| (1,327) | 1:A:127:SER:HB2 | 1:A:129:PHE:H | 11 | 0.47 |
| (1,327) | 1:A:127:SER:HB3 | 1:A:129:PHE:H | 11 | 0.47 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 14 | 0.47 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 14 | 0.47 |
| (1,1727) | 1:A:171:GLU:H | 1:A:171:GLU:HG2 | 2 | 0.47 |
| (1,1727) | 1:A:171:GLU:H | 1:A:171:GLU:HG3 | 2 | 0.47 |
| (1,492) | 1:A:19:HIS:HA | 1:A:19:HIS:HD2 | 7 | 0.44 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 14 | 0.44 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 14 | 0.44 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 14 | 0.44 |
| (1,410) | 1:A:171:GLU:HG2 | 1:A:168:ARG:H | 2 | 0.44 |
| (1,410) | 1:A:171:GLU:HG3 | 1:A:168:ARG:H | 2 | 0.44 |
| (1,350) | 1:A:144:ASN:HB2 | 1:A:97:GLU:HB2 | 20 | 0.44 |
| (1,350) | 1:A:144:ASN:HB2 | 1:A:97:GLU:HB3 | 20 | 0.44 |
| (1,350) | 1:A:144:ASN:HB3 | 1:A:97:GLU:HB2 | 20 | 0.44 |
| (1,350) | 1:A:144:ASN:HB3 | 1:A:97:GLU:HB3 | 20 | 0.44 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD11 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD12 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD13 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD11 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD12 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD13 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD11 | 2 | 0.43 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD12 | 2 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD13 | 2 | 0.43 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD1 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD2 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD1 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD2 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD1 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD2 | 7 | 0.43 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD1 | 17 | 0.43 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD2 | 17 | 0.43 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD1 | 17 | 0.43 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD2 | 17 | 0.43 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD1 | 17 | 0.43 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD2 | 17 | 0.43 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 5 | 0.43 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 14 | 0.41 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 14 | 0.41 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 14 | 0.41 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 10 | 0.41 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 10 | 0.41 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 10 | 0.41 |
| (1,1005) | 1:A:98:ILE:HG21 | 1:A:143:PHE:H | 20 | 0.41 |
| (1,1005) | 1:A:98:ILE:HG22 | 1:A:143:PHE:H | 20 | 0.41 |
| (1,1005) | 1:A:98:ILE:HG23 | 1:A:143:PHE:H | 20 | 0.41 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 14 | 0.4 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 14 | 0.4 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 14 | 0.4 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 14 | 0.4 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 14 | 0.4 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 14 | 0.4 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 9 | 0.4 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 9 | 0.4 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 9 | 0.4 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 17 | 0.4 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 17 | 0.4 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 17 | 0.4 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 17 | 0.4 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 17 | 0.4 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 17 | 0.4 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 19 | 0.39 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 19 | 0.39 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 19 | 0.39 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 13 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 13 | 0.39 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD1 | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD2 | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD1 | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD2 | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD1 | 13 | 0.39 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD2 | 13 | 0.39 |
| (1,2073) | 1:A:128:LEU:HD11 | 1:A:128:LEU:H | 11 | 0.39 |
| (1,2073) | 1:A:128:LEU:HD12 | 1:A:128:LEU:H | 11 | 0.39 |
| (1,2073) | 1:A:128:LEU:HD13 | 1:A:128:LEU:H | 11 | 0.39 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 19 | 0.39 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 19 | 0.39 |
| (1,1851) | 1:A:146:ASP:H | 1:A:145:ARG:H | 14 | 0.39 |
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 14 | 0.38 |
| (1,454) | 1:A:159:LEU:HA | 1:A:67:TYR:HA | 1 | 0.38 |
| (1,354) | 1:A:158:PHE:HA | 1:A:160:TYR:H | 15 | 0.38 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 2 | 0.37 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 2 | 0.37 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 2 | 0.37 |
| (1,2155) | 1:A:136:GLU:H | 1:A:137:ILE:HD11 | 16 | 0.37 |
| (1,2155) | 1:A:136:GLU:H | 1:A:137:ILE:HD12 | 16 | 0.37 |
| (1,2155) | 1:A:136:GLU:H | 1:A:137:ILE:HD13 | 16 | 0.37 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 14 | 0.37 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 14 | 0.37 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 14 | 0.37 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 20 | 0.37 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 20 | 0.37 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 20 | 0.37 |
| (1,1491) | 1:A:36:ASN:HA | 1:A:36:ASN:HD22 | 9 | 0.37 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 3 | 0.36 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 3 | 0.36 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 3 | 0.36 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 16 | 0.36 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 16 | 0.36 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 16 | 0.36 |
| (1,1868) | 1:A:15:THR:HG21 | 1:A:15:THR:H | 13 | 0.36 |
| (1,1868) | 1:A:15:THR:HG22 | 1:A:15:THR:H | 13 | 0.36 |
| (1,1868) | 1:A:15:THR:HG23 | 1:A:15:THR:H | 13 | 0.36 |
| (1,1514) | 1:A:120:LEU:H | 1:A:114:GLN:HG2 | 5 | 0.36 |
| (1,1514) | 1:A:120:LEU:H | 1:A:114:GLN:HG3 | 5 | 0.36 |
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 3 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 19 | 0.35 |
| (1,678) | 1:A:48:ILE:HD11 | 1:A:48:ILE:H | 17 | 0.35 |
| (1,678) | 1:A:48:ILE:HD12 | 1:A:48:ILE:H | 17 | 0.35 |
| (1,678) | 1:A:48:ILE:HD13 | 1:A:48:ILE:H | 17 | 0.35 |
| (1,389) | 1:A:86:ARG:HG2 | 1:A:86:ARG:HA | 13 | 0.35 |
| (1,389) | 1:A:86:ARG:HG3 | 1:A:86:ARG:HA | 13 | 0.35 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 2 | 0.35 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 2 | 0.35 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 19 | 0.35 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 19 | 0.35 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 19 | 0.35 |
| (1,1820) | 1:A:175:SER:H | 1:A:174:PHE:H | 19 | 0.35 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 11 | 0.35 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 11 | 0.35 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD1 | 5 | 0.35 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD2 | 5 | 0.35 |
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 16 | 0.34 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 9 | 0.34 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 9 | 0.34 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 9 | 0.34 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 9 | 0.34 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 9 | 0.34 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 9 | 0.34 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 16 | 0.33 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 16 | 0.33 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 16 | 0.33 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 16 | 0.33 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 16 | 0.33 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 16 | 0.33 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 14 | 0.33 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 14 | 0.33 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 14 | 0.33 |
| (1,1879) | 1:A:177:GLU:H | 1:A:175:SER:HB2 | 9 | 0.33 |
| (1,1879) | 1:A:177:GLU:H | 1:A:175:SER:HB3 | 9 | 0.33 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG2 | 13 | 0.33 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG3 | 13 | 0.33 |
| (1,1496) | 1:A:161:GLY:H | 1:A:159:LEU:H | 5 | 0.33 |
| (1,1496) | 1:A:161:GLY:H | 1:A:159:LEU:H | 9 | 0.33 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 2 | 0.32 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 2 | 0.32 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 2 | 0.32 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 2 | 0.32 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 2 | 0.32 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 20 | 0.32 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 20 | 0.32 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 20 | 0.32 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 11 | 0.32 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 11 | 0.32 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB1 | 1 | 0.32 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB2 | 1 | 0.32 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB3 | 1 | 0.32 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB1 | 1 | 0.32 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB2 | 1 | 0.32 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB3 | 1 | 0.32 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 5 | 0.32 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB2 | 2 | 0.32 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB3 | 2 | 0.32 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB2 | 2 | 0.32 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB3 | 2 | 0.32 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 5 | 0.32 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 5 | 0.32 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 5 | 0.32 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD11 | 7 | 0.32 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD12 | 7 | 0.32 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD13 | 7 | 0.32 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 1 | 0.32 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 1 | 0.32 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 1 | 0.32 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 4 | 0.32 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 4 | 0.32 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 4 | 0.32 |
| (1,1447) | 1:A:177:GLU:HA | 1:A:177:GLU:HG2 | 15 | 0.32 |
| (1,1447) | 1:A:177:GLU:HA | 1:A:177:GLU:HG3 | 15 | 0.32 |
| (1,963) | 1:A:92:ASN:HA | 1:A:92:ASN:HD22 | 2 | 0.31 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 20 | 0.31 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 20 | 0.31 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD11 | 17 | 0.31 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD12 | 17 | 0.31 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD13 | 17 | 0.31 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD11 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD12 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD13 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD11 | 16 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD12 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD13 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD11 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD12 | 16 | 0.31 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD13 | 16 | 0.31 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 7 | 0.31 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 7 | 0.31 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 2 | 0.31 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 2 | 0.31 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 2 | 0.31 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 20 | 0.31 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 20 | 0.31 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 20 | 0.31 |
| (1,1496) | 1:A:161:GLY:H | 1:A:159:LEU:H | 15 | 0.31 |
| (1,1325) | 1:A:157:GLU:HA | 1:A:157:GLU:HG2 | 3 | 0.31 |
| (1,1325) | 1:A:157:GLU:HA | 1:A:157:GLU:HG3 | 3 | 0.31 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 16 | 0.31 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 16 | 0.31 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 16 | 0.31 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 2 | 0.3 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 2 | 0.3 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 2 | 0.3 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 19 | 0.3 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 19 | 0.3 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 19 | 0.3 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 8 | 0.3 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 8 | 0.3 |
| (1,354) | 1:A:158:PHE:HA | 1:A:160:TYR:H | 9 | 0.3 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 20 | 0.3 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 20 | 0.3 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 20 | 0.3 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 18 | 0.3 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 15 | 0.3 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 15 | 0.3 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 15 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 6 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 6 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 6 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 12 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 12 | 0.3 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 12 | 0.3 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 15 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 15 | 0.3 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 15 | 0.3 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 15 | 0.3 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 15 | 0.3 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 15 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD11 | 1:A:137:ILE:HG21 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD11 | 1:A:137:ILE:HG22 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD11 | 1:A:137:ILE:HG23 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD12 | 1:A:137:ILE:HG21 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD12 | 1:A:137:ILE:HG22 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD12 | 1:A:137:ILE:HG23 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD13 | 1:A:137:ILE:HG21 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD13 | 1:A:137:ILE:HG22 | 16 | 0.3 |
| (1,1233) | 1:A:137:ILE:HD13 | 1:A:137:ILE:HG23 | 16 | 0.3 |
| (1,963) | 1:A:92:ASN:HA | 1:A:92:ASN:HD22 | 7 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 5 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 5 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 5 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 8 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 8 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 8 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 9 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 9 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 9 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 10 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 10 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 10 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 11 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 11 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 11 | 0.29 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 13 | 0.29 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 13 | 0.29 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 13 | 0.29 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 15 | 0.29 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 15 | 0.29 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 15 | 0.29 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 15 | 0.29 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 15 | 0.29 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 15 | 0.29 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 11 | 0.29 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 11 | 0.29 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 11 | 0.29 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 11 | 0.29 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 11 | 0.29 |
| (1,520) | 1:A:24:LEU:HD21 | 1:A:23:TRP:HZ2 | 4 | 0.29 |
| (1,520) | 1:A:24:LEU:HD22 | 1:A:23:TRP:HZ2 | 4 | 0.29 |
| (1,520) | 1:A:24:LEU:HD23 | 1:A:23:TRP:HZ2 | 4 | 0.29 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 4 | 0.29 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 4 | 0.29 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 4 | 0.29 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 18 | 0.29 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 18 | 0.29 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 18 | 0.29 |
| (1,40) | 1:A:33:LEU:HD21 | 1:A:39:VAL:H | 17 | 0.29 |
| (1,40) | 1:A:33:LEU:HD22 | 1:A:39:VAL:H | 17 | 0.29 |
| (1,40) | 1:A:33:LEU:HD23 | 1:A:39:VAL:H | 17 | 0.29 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 2 | 0.29 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 2 | 0.29 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 2 | 0.29 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 2 | 0.29 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 2 | 0.29 |
| (1,1851) | 1:A:146:ASP:H | 1:A:145:ARG:H | 20 | 0.29 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 19 | 0.29 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 19 | 0.29 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 19 | 0.29 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 5 | 0.29 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 5 | 0.29 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 5 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 6 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 6 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 6 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 8 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 8 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 8 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 12 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 12 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 12 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 13 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 13 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 13 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 19 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 19 | 0.29 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 19 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 11 | 0.29 |
| (1,1091) | 1:A:111:ASP:HB2 | 1:A:112:GLN:H | 9 | 0.29 |
| (1,1091) | 1:A:111:ASP:HB3 | 1:A:112:GLN:H | 9 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 1 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 1 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 1 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 16 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 16 | 0.29 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 16 | 0.29 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 20 | 0.29 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 20 | 0.29 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 20 | 0.29 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 20 | 0.29 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 20 | 0.29 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 20 | 0.29 |
| (1,963) | 1:A:92:ASN:HA | 1:A:92:ASN:HD22 | 11 | 0.28 |
| (1,963) | 1:A:92:ASN:HA | 1:A:92:ASN:HD22 | 19 | 0.28 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 4 | 0.28 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 4 | 0.28 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 4 | 0.28 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 15 | 0.28 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 15 | 0.28 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 15 | 0.28 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 18 | 0.28 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 18 | 0.28 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 18 | 0.28 |
| (1,678) | 1:A:48:ILE:HD11 | 1:A:48:ILE:H | 18 | 0.28 |
| (1,678) | 1:A:48:ILE:HD12 | 1:A:48:ILE:H | 18 | 0.28 |
| (1,678) | 1:A:48:ILE:HD13 | 1:A:48:ILE:H | 18 | 0.28 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 11 | 0.28 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 11 | 0.28 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 11 | 0.28 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 19 | 0.28 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 19 | 0.28 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 19 | 0.28 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 19 | 0.28 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 19 | 0.28 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 19 | 0.28 |
| (1,54) | 1:A:23:TRP:H | 1:A:24:LEU:H | 9 | 0.28 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 5 | 0.28 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 5 | 0.28 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 5 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,425) | 1:A:62:LEU:HD11 | 1:A:43:LEU:HA | 4 | 0.28 |
| (1,425) | 1:A:62:LEU:HD12 | 1:A:43:LEU:HA | 4 | 0.28 |
| (1,425) | 1:A:62:LEU:HD13 | 1:A:43:LEU:HA | 4 | 0.28 |
| (1,42) | 1:A:33:LEU:HD21 | 1:A:27:VAL:HG21 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD21 | 1:A:27:VAL:HG22 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD21 | 1:A:27:VAL:HG23 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD22 | 1:A:27:VAL:HG21 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD22 | 1:A:27:VAL:HG22 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD22 | 1:A:27:VAL:HG23 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD23 | 1:A:27:VAL:HG21 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD23 | 1:A:27:VAL:HG22 | 19 | 0.28 |
| (1,42) | 1:A:33:LEU:HD23 | 1:A:27:VAL:HG23 | 19 | 0.28 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 1 | 0.28 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 1 | 0.28 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 1 | 0.28 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 1 | 0.28 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 1 | 0.28 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 1 | 0.28 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 16 | 0.28 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 16 | 0.28 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 16 | 0.28 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 4 | 0.28 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 4 | 0.28 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 4 | 0.28 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 20 | 0.28 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 20 | 0.28 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 7 | 0.28 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 7 | 0.28 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 9 | 0.28 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 9 | 0.28 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 11 | 0.28 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 11 | 0.28 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 11 | 0.28 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 18 | 0.28 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 18 | 0.28 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB1 | 16 | 0.28 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB2 | 16 | 0.28 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB3 | 16 | 0.28 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 18 | 0.28 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 18 | 0.28 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 18 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 1 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|----------------|----------|---------------|
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 1 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 1 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 3 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 3 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 3 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 7 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 7 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 7 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 9 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 9 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 9 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 11 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 11 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 11 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 14 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 14 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 14 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 17 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 17 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 17 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 20 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 20 | 0.28 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 20 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 4 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 4 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 4 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 5 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 5 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 5 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 6 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 6 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 6 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 7 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 7 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 7 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 8 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 8 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 8 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 9 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 9 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 9 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 10 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 10 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 10 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 11 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 11 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 11 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 12 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 12 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 12 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 13 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 13 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 13 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 15 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 15 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 15 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 19 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 19 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 19 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 20 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 20 | 0.28 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 20 | 0.28 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 1 | 0.28 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 1 | 0.28 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 1 | 0.28 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 1 | 0.28 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 1 | 0.28 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 1 | 0.28 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 1 | 0.27 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 1 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 1 | 0.27 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 3 | 0.27 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 3 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 3 | 0.27 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 6 | 0.27 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 6 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 6 | 0.27 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 12 | 0.27 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 12 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 12 | 0.27 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 14 | 0.27 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 14 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 14 | 0.27 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 17 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 17 | 0.27 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 17 | 0.27 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 9 | 0.27 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 9 | 0.27 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 9 | 0.27 |
| (1,55) | 1:A:45:VAL:HA | 1:A:62:LEU:H | 4 | 0.27 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 10 | 0.27 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 10 | 0.27 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 10 | 0.27 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 10 | 0.27 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 10 | 0.27 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 10 | 0.27 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 10 | 0.27 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 10 | 0.27 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 11 | 0.27 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 11 | 0.27 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 11 | 0.27 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE1 | 2 | 0.27 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE2 | 2 | 0.27 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE1 | 2 | 0.27 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE2 | 2 | 0.27 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE1 | 2 | 0.27 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE2 | 2 | 0.27 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 16 | 0.27 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 16 | 0.27 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 16 | 0.27 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 18 | 0.27 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 18 | 0.27 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB2 | 4 | 0.27 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB3 | 4 | 0.27 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 20 | 0.27 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 20 | 0.27 |
| (1,1758) | 1:A:54:THR:HG21 | 1:A:55:LEU:H | 8 | 0.27 |
| (1,1758) | 1:A:54:THR:HG22 | 1:A:55:LEU:H | 8 | 0.27 |
| (1,1758) | 1:A:54:THR:HG23 | 1:A:55:LEU:H | 8 | 0.27 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 11 | 0.27 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 11 | 0.27 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 7 | 0.27 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 7 | 0.27 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 7 | 0.27 |
| (1,1621) | 1:A:91:GLN:HE21 | 1:A:88:ARG:HA | 10 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 2 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 2 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 2 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 4 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 4 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 4 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 10 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 10 | 0.27 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 10 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 1 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 1 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 13 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 13 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 15 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 15 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 16 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 16 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 20 | 0.27 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 20 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 2 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 2 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 2 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 3 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 3 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 3 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 14 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 14 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 14 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 17 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 17 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 17 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG21 | 1:A:105:ILE:H | 18 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG22 | 1:A:105:ILE:H | 18 | 0.27 |
| (1,1067) | 1:A:105:ILE:HG23 | 1:A:105:ILE:H | 18 | 0.27 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 16 | 0.27 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 16 | 0.27 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 16 | 0.27 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 16 | 0.27 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 16 | 0.27 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 16 | 0.27 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 17 | 0.26 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 17 | 0.26 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 17 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|--------------|----------|---------------|
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 2 | 0.26 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 2 | 0.26 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 2 | 0.26 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 16 | 0.26 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 16 | 0.26 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 16 | 0.26 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 20 | 0.26 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 20 | 0.26 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 20 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 1 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 1 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 1 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 2 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 2 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 2 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 4 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 4 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 4 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 5 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 5 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 5 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 6 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 6 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 6 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 7 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 7 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 7 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 10 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 10 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 10 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 11 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 11 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 11 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 12 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 12 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 12 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 16 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 16 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 16 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 17 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 17 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 17 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 19 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 19 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 19 | 0.26 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 20 | 0.26 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 20 | 0.26 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 20 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 6 | 0.26 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 6 | 0.26 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 6 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 10 | 0.26 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 10 | 0.26 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 10 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 12 | 0.26 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 12 | 0.26 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 12 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 16 | 0.26 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 16 | 0.26 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 16 | 0.26 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 20 | 0.26 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 20 | 0.26 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 20 | 0.26 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 14 | 0.26 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 14 | 0.26 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 14 | 0.26 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 3 | 0.26 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 3 | 0.26 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 3 | 0.26 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 3 | 0.26 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 3 | 0.26 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 3 | 0.26 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 16 | 0.26 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 16 | 0.26 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 17 | 0.26 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 17 | 0.26 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 17 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 13 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 6 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 6 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 6 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 12 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 12 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 12 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 18 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 18 | 0.26 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 18 | 0.26 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB2 | 6 | 0.26 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB3 | 6 | 0.26 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB2 | 12 | 0.26 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB3 | 12 | 0.26 |
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB2 | 16 | 0.26 |
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB3 | 16 | 0.26 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG2 | 4 | 0.26 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG3 | 4 | 0.26 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 9 | 0.26 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 9 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 3 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 3 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 3 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 6 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 6 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 6 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 8 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 8 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 8 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 9 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 9 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 9 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 10 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 10 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 10 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 11 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 11 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 11 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 12 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 12 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 12 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 15 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 15 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 15 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 20 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 20 | 0.26 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 20 | 0.26 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 10 | 0.26 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 10 | 0.26 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 10 | 0.26 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 18 | 0.26 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 18 | 0.26 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 18 | 0.26 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 20 | 0.26 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 20 | 0.26 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 20 | 0.26 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 20 | 0.26 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 20 | 0.26 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 20 | 0.26 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 16 | 0.26 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 16 | 0.26 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 16 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 6 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 6 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 6 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 12 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 12 | 0.26 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 12 | 0.26 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 7 | 0.26 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 7 | 0.26 |
| (1,1107) | 1:A:113:VAL:HG21 | 1:A:114:GLN:HE22 | 5 | 0.26 |
| (1,1107) | 1:A:113:VAL:HG22 | 1:A:114:GLN:HE22 | 5 | 0.26 |
| (1,1107) | 1:A:113:VAL:HG23 | 1:A:114:GLN:HE22 | 5 | 0.26 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 8 | 0.26 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 8 | 0.26 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 8 | 0.26 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 8 | 0.26 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 8 | 0.26 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 8 | 0.26 |
| (1,948) | 1:A:89:VAL:HG21 | 1:A:89:VAL:H | 7 | 0.25 |
| (1,948) | 1:A:89:VAL:HG22 | 1:A:89:VAL:H | 7 | 0.25 |
| (1,948) | 1:A:89:VAL:HG23 | 1:A:89:VAL:H | 7 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 3 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 3 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 3 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 8 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 8 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 8 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 9 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 9 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 9 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 13 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 13 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 13 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 14 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 14 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 14 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 15 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 15 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 15 | 0.25 |
| (1,900) | 1:A:78:ILE:HG21 | 1:A:78:ILE:H | 18 | 0.25 |
| (1,900) | 1:A:78:ILE:HG22 | 1:A:78:ILE:H | 18 | 0.25 |
| (1,900) | 1:A:78:ILE:HG23 | 1:A:78:ILE:H | 18 | 0.25 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 2 | 0.25 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 2 | 0.25 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG2 | 16 | 0.25 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG3 | 16 | 0.25 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 10 | 0.25 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 10 | 0.25 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 10 | 0.25 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 14 | 0.25 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 14 | 0.25 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 14 | 0.25 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 8 | 0.25 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 8 | 0.25 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 8 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 3 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 3 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 3 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 4 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 4 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 4 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 7 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 7 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 7 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 13 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 13 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 13 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 15 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 15 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 15 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 17 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 17 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 17 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 18 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 18 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 18 | 0.25 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 19 | 0.25 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 19 | 0.25 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 19 | 0.25 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 13 | 0.25 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 13 | 0.25 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 13 | 0.25 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 8 | 0.25 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 8 | 0.25 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 8 | 0.25 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 8 | 0.25 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 8 | 0.25 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 8 | 0.25 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD2 | 4 | 0.25 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD3 | 4 | 0.25 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 3 | 0.25 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 3 | 0.25 |
| (1,205) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HD21 | 14 | 0.25 |
| (1,205) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HD22 | 14 | 0.25 |
| (1,205) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HD23 | 14 | 0.25 |
| (1,205) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HD21 | 14 | 0.25 |
| (1,205) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HD22 | 14 | 0.25 |
| (1,205) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HD23 | 14 | 0.25 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 7 | 0.25 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 7 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 18 | 0.25 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 18 | 0.25 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 13 | 0.25 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 13 | 0.25 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 13 | 0.25 |
| (1,1801) | 1:A:41:LYS:HD2 | 1:A:42:VAL:H | 9 | 0.25 |
| (1,1801) | 1:A:41:LYS:HD3 | 1:A:42:VAL:H | 9 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 4 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 4 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 4 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 5 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 5 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 5 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 13 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 13 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 13 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 14 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 14 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 14 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 17 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 17 | 0.25 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 17 | 0.25 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 10 | 0.25 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 10 | 0.25 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 10 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG21 | 1:A:137:ILE:HD11 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG21 | 1:A:137:ILE:HD12 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG21 | 1:A:137:ILE:HD13 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG22 | 1:A:137:ILE:HD11 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG22 | 1:A:137:ILE:HD12 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG22 | 1:A:137:ILE:HD13 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG23 | 1:A:137:ILE:HD11 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG23 | 1:A:137:ILE:HD12 | 16 | 0.25 |
| (1,1228) | 1:A:100:ILE:HG23 | 1:A:137:ILE:HD13 | 16 | 0.25 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 5 | 0.25 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 5 | 0.25 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 5 | 0.25 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 10 | 0.24 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 10 | 0.24 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 10 | 0.24 |
| (1,678) | 1:A:48:ILE:HD11 | 1:A:48:ILE:H | 4 | 0.24 |
| (1,678) | 1:A:48:ILE:HD12 | 1:A:48:ILE:H | 4 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|----------------|----------|---------------|
| (1,678) | 1:A:48:ILE:HD13 | 1:A:48:ILE:H | 4 | 0.24 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 1 | 0.24 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 1 | 0.24 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 1 | 0.24 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 1 | 0.24 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 1 | 0.24 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 1 | 0.24 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 1 | 0.24 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 1 | 0.24 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 1 | 0.24 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 2 | 0.24 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 2 | 0.24 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 2 | 0.24 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 8 | 0.24 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 8 | 0.24 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 8 | 0.24 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 9 | 0.24 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 9 | 0.24 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 9 | 0.24 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 11 | 0.24 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 11 | 0.24 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 11 | 0.24 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 1 | 0.24 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 1 | 0.24 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 1 | 0.24 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 17 | 0.24 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 17 | 0.24 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 17 | 0.24 |
| (1,425) | 1:A:62:LEU:HD11 | 1:A:43:LEU:HA | 9 | 0.24 |
| (1,425) | 1:A:62:LEU:HD12 | 1:A:43:LEU:HA | 9 | 0.24 |
| (1,425) | 1:A:62:LEU:HD13 | 1:A:43:LEU:HA | 9 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 6 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 12 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 12 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 12 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 12 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 12 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 12 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 20 | 0.24 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 20 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 20 | 0.24 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 20 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 20 | 0.24 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 20 | 0.24 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 15 | 0.24 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 15 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 6 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 12 | 0.24 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 12 | 0.24 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 7 | 0.24 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 7 | 0.24 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 7 | 0.24 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 19 | 0.24 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 19 | 0.24 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 19 | 0.24 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 7 | 0.24 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 7 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 7 | 0.24 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 7 | 0.24 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 7 | 0.24 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 7 | 0.24 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 8 | 0.24 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 8 | 0.24 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 8 | 0.24 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 15 | 0.24 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 15 | 0.24 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 15 | 0.24 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB2 | 17 | 0.24 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB3 | 17 | 0.24 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB2 | 17 | 0.24 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB3 | 17 | 0.24 |
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB2 | 17 | 0.24 |
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB3 | 17 | 0.24 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 14 | 0.24 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 14 | 0.24 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 14 | 0.24 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 14 | 0.24 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE2 | 8 | 0.24 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE3 | 8 | 0.24 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE2 | 8 | 0.24 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE3 | 8 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 1 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 1 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 1 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 8 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 8 | 0.24 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 8 | 0.24 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 17 | 0.24 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 17 | 0.24 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 17 | 0.24 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 3 | 0.24 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 3 | 0.24 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB1 | 8 | 0.24 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB2 | 8 | 0.24 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB3 | 8 | 0.24 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 17 | 0.24 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 19 | 0.24 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 19 | 0.24 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 12 | 0.24 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 11 | 0.24 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 11 | 0.24 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 11 | 0.24 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 16 | 0.24 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 16 | 0.24 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 16 | 0.24 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 10 | 0.23 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 10 | 0.23 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 10 | 0.23 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 10 | 0.23 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 10 | 0.23 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 10 | 0.23 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 4 | 0.23 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 4 | 0.23 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 4 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 3 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 3 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 3 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 6 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 6 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 6 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 9 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 9 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 9 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 10 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 10 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 10 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 12 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 12 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 12 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 13 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 13 | 0.23 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 13 | 0.23 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 5 | 0.23 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 5 | 0.23 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 5 | 0.23 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 10 | 0.23 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 10 | 0.23 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 10 | 0.23 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 6 | 0.23 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 6 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 6 | 0.23 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 8 | 0.23 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 8 | 0.23 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 8 | 0.23 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 12 | 0.23 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 12 | 0.23 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 12 | 0.23 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 13 | 0.23 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 13 | 0.23 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 13 | 0.23 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 10 | 0.23 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 10 | 0.23 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 10 | 0.23 |
| (1,578) | 1:A:34:GLY:HA2 | 1:A:36:ASN:H | 17 | 0.23 |
| (1,578) | 1:A:34:GLY:HA3 | 1:A:36:ASN:H | 17 | 0.23 |
| (1,506) | 1:A:23:TRP:HD1 | 1:A:23:TRP:HA | 13 | 0.23 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 7 | 0.23 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 7 | 0.23 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 7 | 0.23 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 6 | 0.23 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 6 | 0.23 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 12 | 0.23 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 12 | 0.23 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD1 | 17 | 0.23 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD2 | 17 | 0.23 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD1 | 17 | 0.23 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD2 | 17 | 0.23 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 17 | 0.23 |
| (1,284) | 1:A:39:VAL:HG21 | 1:A:40:ASP:HA | 19 | 0.23 |
| (1,284) | 1:A:39:VAL:HG22 | 1:A:40:ASP:HA | 19 | 0.23 |
| (1,284) | 1:A:39:VAL:HG23 | 1:A:40:ASP:HA | 19 | 0.23 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 10 | 0.23 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 10 | 0.23 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 10 | 0.23 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 13 | 0.23 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 13 | 0.23 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 13 | 0.23 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 1 | 0.23 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 1 | 0.23 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 1 | 0.23 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 15 | 0.23 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 17 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 14 | 0.23 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 14 | 0.23 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 13 | 0.23 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 13 | 0.23 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 3 | 0.23 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 3 | 0.23 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 3 | 0.23 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 5 | 0.23 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 5 | 0.23 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 5 | 0.23 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB2 | 11 | 0.23 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB3 | 11 | 0.23 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD11 | 4 | 0.23 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD12 | 4 | 0.23 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD13 | 4 | 0.23 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 13 | 0.23 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 13 | 0.23 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG2 | 7 | 0.23 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG3 | 7 | 0.23 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB1 | 9 | 0.23 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB2 | 9 | 0.23 |
| (1,1769) | 1:A:11:ALA:H | 1:A:11:ALA:HB3 | 9 | 0.23 |
| (1,1736) | 1:A:29:CYS:H | 1:A:30:GLU:HA | 10 | 0.23 |
| (1,1678) | 1:A:170:ILE:HG21 | 1:A:170:ILE:H | 16 | 0.23 |
| (1,1678) | 1:A:170:ILE:HG22 | 1:A:170:ILE:H | 16 | 0.23 |
| (1,1678) | 1:A:170:ILE:HG23 | 1:A:170:ILE:H | 16 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 3 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 3 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 3 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 6 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 6 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 6 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 9 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 9 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 9 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 12 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 12 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 12 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 20 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 20 | 0.23 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 20 | 0.23 |
| (1,1350) | 1:A:159:LEU:HD21 | 1:A:160:TYR:HB2 | 9 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1350) | 1:A:159:LEU:HD21 | 1:A:160:TYR:HB3 | 9 | 0.23 |
| (1,1350) | 1:A:159:LEU:HD22 | 1:A:160:TYR:HB2 | 9 | 0.23 |
| (1,1350) | 1:A:159:LEU:HD22 | 1:A:160:TYR:HB3 | 9 | 0.23 |
| (1,1350) | 1:A:159:LEU:HD23 | 1:A:160:TYR:HB2 | 9 | 0.23 |
| (1,1350) | 1:A:159:LEU:HD23 | 1:A:160:TYR:HB3 | 9 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 5 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 5 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 8 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 8 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 19 | 0.23 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 19 | 0.23 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 13 | 0.23 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 13 | 0.23 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 13 | 0.23 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 13 | 0.23 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 13 | 0.23 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 13 | 0.23 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD2 | 18 | 0.22 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD3 | 18 | 0.22 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 3 | 0.22 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 3 | 0.22 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 3 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 7 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 16 | 0.22 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 16 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 1 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|---------------|----------|---------------|
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 1 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 2 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 2 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 2 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 3 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 3 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 3 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 5 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 5 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 5 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 6 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 6 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 6 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 7 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 7 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 7 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 8 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 8 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 8 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 9 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 9 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 9 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 10 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 10 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 10 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 11 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 11 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 11 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 12 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 12 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 12 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 13 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 13 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 13 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 14 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 14 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 14 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 15 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 15 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 15 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 16 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 16 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 16 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 17 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 17 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 17 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 18 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 18 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 18 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 19 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 19 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 19 | 0.22 |
| (1,795) | 1:A:69:ILE:HD11 | 1:A:69:ILE:HB | 20 | 0.22 |
| (1,795) | 1:A:69:ILE:HD12 | 1:A:69:ILE:HB | 20 | 0.22 |
| (1,795) | 1:A:69:ILE:HD13 | 1:A:69:ILE:HB | 20 | 0.22 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 9 | 0.22 |
| (1,703) | 1:A:55:LEU:HG | 1:A:55:LEU:H | 2 | 0.22 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 2 | 0.22 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 2 | 0.22 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 2 | 0.22 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 4 | 0.22 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 4 | 0.22 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 4 | 0.22 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 18 | 0.22 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 18 | 0.22 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 18 | 0.22 |
| (1,615) | 1:A:41:LYS:HD2 | 1:A:41:LYS:HA | 19 | 0.22 |
| (1,615) | 1:A:41:LYS:HD3 | 1:A:41:LYS:HA | 19 | 0.22 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD2 | 19 | 0.22 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD3 | 19 | 0.22 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD1 | 14 | 0.22 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD2 | 14 | 0.22 |
| (1,578) | 1:A:34:GLY:HA2 | 1:A:36:ASN:H | 7 | 0.22 |
| (1,578) | 1:A:34:GLY:HA3 | 1:A:36:ASN:H | 7 | 0.22 |
| (1,578) | 1:A:34:GLY:HA2 | 1:A:36:ASN:H | 13 | 0.22 |
| (1,578) | 1:A:34:GLY:HA3 | 1:A:36:ASN:H | 13 | 0.22 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 11 | 0.22 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 11 | 0.22 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 11 | 0.22 |
| (1,55) | 1:A:45:VAL:HA | 1:A:62:LEU:H | 19 | 0.22 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 5 | 0.22 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 5 | 0.22 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 5 | 0.22 |
| (1,462) | 1:A:8:SER:HB2 | 1:A:10:ASP:H | 20 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,462) | 1:A:8:SER:HB3 | 1:A:10:ASP:H | 20 | 0.22 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 5 | 0.22 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 5 | 0.22 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 18 | 0.22 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 18 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 5 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 11 | 0.22 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 11 | 0.22 |
| (1,374) | 1:A:62:LEU:HD21 | 1:A:69:ILE:H | 5 | 0.22 |
| (1,374) | 1:A:62:LEU:HD22 | 1:A:69:ILE:H | 5 | 0.22 |
| (1,374) | 1:A:62:LEU:HD23 | 1:A:69:ILE:H | 5 | 0.22 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 11 | 0.22 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 11 | 0.22 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 17 | 0.22 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 17 | 0.22 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 17 | 0.22 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 17 | 0.22 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 17 | 0.22 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 5 | 0.22 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 5 | 0.22 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 16 | 0.22 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 16 | 0.22 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 16 | 0.22 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 3 | 0.22 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 11 | 0.22 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 11 | 0.22 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 11 | 0.22 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 11 | 0.22 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 11 | 0.22 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 11 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 10 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 10 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 10 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 11 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 11 | 0.22 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 11 | 0.22 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB2 | 14 | 0.22 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB3 | 14 | 0.22 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 3 | 0.22 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 3 | 0.22 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG21 | 18 | 0.22 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG22 | 18 | 0.22 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG23 | 18 | 0.22 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 1 | 0.22 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 1 | 0.22 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 18 | 0.22 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 18 | 0.22 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 4 | 0.22 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 4 | 0.22 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 4 | 0.22 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 17 | 0.22 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 17 | 0.22 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 17 | 0.22 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 4 | 0.22 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 4 | 0.22 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 4 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1933) | 1:A:176:ASP:H | 1:A:175:SER:HB2 | 16 | 0.22 |
| (1,1933) | 1:A:176:ASP:H | 1:A:175:SER:HB3 | 16 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 14 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 14 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 14 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 16 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 16 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 16 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 18 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 18 | 0.22 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 18 | 0.22 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 9 | 0.22 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 9 | 0.22 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 10 | 0.22 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 10 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 2 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 2 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 2 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 11 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 11 | 0.22 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 11 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 2 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 2 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 2 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 7 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 7 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 7 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 14 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 14 | 0.22 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 14 | 0.22 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB2 | 5 | 0.22 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB3 | 5 | 0.22 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB2 | 5 | 0.22 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB3 | 5 | 0.22 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB2 | 5 | 0.22 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB3 | 5 | 0.22 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 5 | 0.22 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 5 | 0.22 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 5 | 0.22 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 18 | 0.22 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 18 | 0.22 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 18 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1477) | 1:A:114:GLN:HE22 | 1:A:114:GLN:HB2 | 5 | 0.22 |
| (1,1477) | 1:A:114:GLN:HE22 | 1:A:114:GLN:HB3 | 5 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 2 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 2 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 2 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 8 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 8 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 8 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 11 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 11 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 11 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD11 | 1:A:170:ILE:HB | 19 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD12 | 1:A:170:ILE:HB | 19 | 0.22 |
| (1,1416) | 1:A:170:ILE:HD13 | 1:A:170:ILE:HB | 19 | 0.22 |
| (1,1313) | 1:A:156:ILE:HD11 | 1:A:156:ILE:HA | 5 | 0.22 |
| (1,1313) | 1:A:156:ILE:HD12 | 1:A:156:ILE:HA | 5 | 0.22 |
| (1,1313) | 1:A:156:ILE:HD13 | 1:A:156:ILE:HA | 5 | 0.22 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 2 | 0.22 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 2 | 0.22 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 2 | 0.22 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 4 | 0.22 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 4 | 0.22 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 4 | 0.22 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 6 | 0.22 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 6 | 0.22 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 6 | 0.22 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 12 | 0.22 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 12 | 0.22 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 12 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD11 | 8 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD12 | 8 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD13 | 8 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD11 | 10 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD12 | 10 | 0.22 |
| (1,1280) | 1:A:149:ILE:HB | 1:A:149:ILE:HD13 | 10 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 5 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 5 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 5 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 5 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 5 | 0.22 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 5 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 1 | 0.22 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 1 | 0.22 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 13 | 0.22 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 13 | 0.22 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 20 | 0.22 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 20 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 9 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 9 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 9 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 10 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 10 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 10 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 11 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 11 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 11 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 13 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 13 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 13 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 14 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 14 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 14 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 15 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 15 | 0.22 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 15 | 0.22 |
| (1,958) | 1:A:90:THR:HB | 1:A:91:GLN:H | 15 | 0.21 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 4 | 0.21 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 4 | 0.21 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD21 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD22 | 2 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD23 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD21 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD22 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD23 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD21 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD22 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD23 | 2 | 0.21 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD21 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD22 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD23 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD21 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD22 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD23 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD21 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD22 | 11 | 0.21 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD23 | 11 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 2 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 2 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 2 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG21 | 20 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG22 | 20 | 0.21 |
| (1,695) | 1:A:54:THR:HA | 1:A:54:THR:HG23 | 20 | 0.21 |
| (1,678) | 1:A:48:ILE:HD11 | 1:A:48:ILE:H | 9 | 0.21 |
| (1,678) | 1:A:48:ILE:HD12 | 1:A:48:ILE:H | 9 | 0.21 |
| (1,678) | 1:A:48:ILE:HD13 | 1:A:48:ILE:H | 9 | 0.21 |
| (1,676) | 1:A:48:ILE:HB | 1:A:48:ILE:H | 16 | 0.21 |
| (1,669) | 1:A:47:ARG:HD2 | 1:A:48:ILE:H | 2 | 0.21 |
| (1,669) | 1:A:47:ARG:HD3 | 1:A:48:ILE:H | 2 | 0.21 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 1 | 0.21 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 1 | 0.21 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 1 | 0.21 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 6 | 0.21 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 6 | 0.21 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 6 | 0.21 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 12 | 0.21 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 12 | 0.21 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 12 | 0.21 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 4 | 0.21 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 4 | 0.21 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 4 | 0.21 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 4 | 0.21 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 4 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 4 | 0.21 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 20 | 0.21 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 20 | 0.21 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 20 | 0.21 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD1 | 11 | 0.21 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD2 | 11 | 0.21 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 3 | 0.21 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 3 | 0.21 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 3 | 0.21 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG21 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG22 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG23 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG21 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG22 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG23 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG21 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG22 | 19 | 0.21 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG23 | 19 | 0.21 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 2 | 0.21 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 2 | 0.21 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 19 | 0.21 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 19 | 0.21 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 10 | 0.21 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 10 | 0.21 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 10 | 0.21 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 14 | 0.21 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 14 | 0.21 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 14 | 0.21 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 17 | 0.21 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 17 | 0.21 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 17 | 0.21 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 19 | 0.21 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 19 | 0.21 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 19 | 0.21 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 15 | 0.21 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 15 | 0.21 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 15 | 0.21 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD1 | 14 | 0.21 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD2 | 14 | 0.21 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD1 | 14 | 0.21 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD2 | 14 | 0.21 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD1 | 14 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD2 | 14 | 0.21 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 5 | 0.21 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 5 | 0.21 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 3 | 0.21 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 3 | 0.21 |
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 3 | 0.21 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 7 | 0.21 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 7 | 0.21 |
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 7 | 0.21 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 18 | 0.21 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 18 | 0.21 |
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 18 | 0.21 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 2 | 0.21 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 2 | 0.21 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 2 | 0.21 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 9 | 0.21 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 9 | 0.21 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 9 | 0.21 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 1 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 7 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 7 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 9 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 9 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 19 | 0.21 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 19 | 0.21 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 2 | 0.21 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 2 | 0.21 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 2 | 0.21 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 3 | 0.21 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 3 | 0.21 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 3 | 0.21 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB2 | 11 | 0.21 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB3 | 11 | 0.21 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 2 | 0.21 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 2 | 0.21 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 2 | 0.21 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 20 | 0.21 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 20 | 0.21 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 20 | 0.21 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD11 | 15 | 0.21 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD12 | 15 | 0.21 |
| (1,1809) | 1:A:129:PHE:H | 1:A:128:LEU:HD13 | 15 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 10 | 0.21 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 10 | 0.21 |
| (1,1736) | 1:A:29:CYS:H | 1:A:30:GLU:HA | 18 | 0.21 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 10 | 0.21 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD1 | 1 | 0.21 |
| (1,1497) | 1:A:161:GLY:H | 1:A:160:TYR:HD2 | 1 | 0.21 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD11 | 9 | 0.21 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD12 | 9 | 0.21 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD13 | 9 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 10 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 10 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 10 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 19 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 19 | 0.21 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 19 | 0.21 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 10 | 0.21 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 10 | 0.21 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 17 | 0.21 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 17 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 11 | 0.21 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 11 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 1 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 1 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 4 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 4 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 6 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 6 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 12 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 12 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD1 | 18 | 0.21 |
| (1,1074) | 1:A:107:PHE:HA | 1:A:107:PHE:HD2 | 18 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 1 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 1 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 1 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 2 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 2 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 2 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 3 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 3 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 3 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 4 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 4 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 4 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 5 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 5 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 5 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 6 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 6 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 6 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 7 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 7 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 7 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 8 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 8 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 8 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 12 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 12 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 12 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 16 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 16 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 16 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 17 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 17 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 17 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 18 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 18 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 18 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 19 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 19 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 19 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD11 | 20 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD12 | 20 | 0.21 |
| (1,1063) | 1:A:105:ILE:HB | 1:A:105:ILE:HD13 | 20 | 0.21 |
| (1,1016) | 1:A:99:MET:HE1 | 1:A:143:PHE:HZ | 10 | 0.21 |
| (1,1016) | 1:A:99:MET:HE2 | 1:A:143:PHE:HZ | 10 | 0.21 |
| (1,1016) | 1:A:99:MET:HE3 | 1:A:143:PHE:HZ | 10 | 0.21 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 19 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 19 | 0.21 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 19 | 0.21 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 19 | 0.21 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 19 | 0.21 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 19 | 0.21 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 11 | 0.2 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 11 | 0.2 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 11 | 0.2 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 9 | 0.2 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 9 | 0.2 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 9 | 0.2 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 20 | 0.2 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 20 | 0.2 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 19 | 0.2 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 19 | 0.2 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 19 | 0.2 |
| (1,676) | 1:A:48:ILE:HB | 1:A:48:ILE:H | 14 | 0.2 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 15 | 0.2 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 15 | 0.2 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 15 | 0.2 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 20 | 0.2 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 20 | 0.2 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 20 | 0.2 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 4 | 0.2 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 4 | 0.2 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 4 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 1 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 1 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 1 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 3 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 3 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 3 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 4 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 4 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 4 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 5 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 5 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 5 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 6 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 6 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 6 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 8 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 8 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 8 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 10 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 10 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 10 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 11 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 11 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 11 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 12 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 12 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 12 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 14 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 14 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 14 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 15 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 15 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 15 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 16 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 16 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 16 | 0.2 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 17 | 0.2 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 17 | 0.2 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 17 | 0.2 |
| (1,542) | 1:A:27:VAL:HG21 | 1:A:27:VAL:H | 14 | 0.2 |
| (1,542) | 1:A:27:VAL:HG22 | 1:A:27:VAL:H | 14 | 0.2 |
| (1,542) | 1:A:27:VAL:HG23 | 1:A:27:VAL:H | 14 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 13 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 13 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 13 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 16 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 16 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 16 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 17 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 17 | 0.2 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 17 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 1 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 1 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 1 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 3 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 3 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 3 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 7 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 7 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 7 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 8 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 8 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 8 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 9 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 9 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 9 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 10 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 10 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 10 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 11 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 11 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 11 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 13 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 13 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 13 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 16 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 16 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 16 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 17 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 17 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 17 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 18 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 18 | 0.2 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 18 | 0.2 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 17 | 0.2 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 17 | 0.2 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 17 | 0.2 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG21 | 14 | 0.2 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG22 | 14 | 0.2 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG23 | 14 | 0.2 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG21 | 14 | 0.2 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG22 | 14 | 0.2 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG23 | 14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 6 | 0.2 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 6 | 0.2 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 12 | 0.2 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 12 | 0.2 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 5 | 0.2 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 5 | 0.2 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 9 | 0.2 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 9 | 0.2 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 9 | 0.2 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE1 | 2 | 0.2 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE2 | 2 | 0.2 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE1 | 2 | 0.2 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE2 | 2 | 0.2 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 17 | 0.2 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 17 | 0.2 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 17 | 0.2 |
| (1,2225) | 1:A:98:ILE:H | 1:A:44:LYS:HA | 20 | 0.2 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 3 | 0.2 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 3 | 0.2 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 17 | 0.2 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 17 | 0.2 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 17 | 0.2 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 17 | 0.2 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 17 | 0.2 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 5 | 0.2 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 5 | 0.2 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 5 | 0.2 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 5 | 0.2 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 7 | 0.2 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 8 | 0.2 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 15 | 0.2 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 4 | 0.2 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 4 | 0.2 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 19 | 0.2 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 19 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 2 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 2 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 2 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 7 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 7 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 7 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 8 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 8 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 8 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 10 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 10 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 10 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 20 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 20 | 0.2 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 20 | 0.2 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 11 | 0.2 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 11 | 0.2 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 11 | 0.2 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB2 | 14 | 0.2 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB3 | 14 | 0.2 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 14 | 0.2 |
| (1,1736) | 1:A:29:CYS:H | 1:A:30:GLU:HA | 20 | 0.2 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 20 | 0.2 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 20 | 0.2 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 20 | 0.2 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 11 | 0.2 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 11 | 0.2 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 11 | 0.2 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD1 | 3 | 0.2 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD2 | 3 | 0.2 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 1 | 0.2 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 1 | 0.2 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 1 | 0.2 |
| (1,136) | 1:A:76:LYS:HB2 | 1:A:74:ASN:HD21 | 17 | 0.2 |
| (1,136) | 1:A:76:LYS:HB2 | 1:A:74:ASN:HD22 | 17 | 0.2 |
| (1,136) | 1:A:76:LYS:HB3 | 1:A:74:ASN:HD21 | 17 | 0.2 |
| (1,136) | 1:A:76:LYS:HB3 | 1:A:74:ASN:HD22 | 17 | 0.2 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 18 | 0.2 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 18 | 0.2 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 18 | 0.2 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 16 | 0.2 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 16 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 16 | 0.2 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 6 | 0.2 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 6 | 0.2 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 6 | 0.2 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 12 | 0.2 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 12 | 0.2 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 12 | 0.2 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 17 | 0.2 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 17 | 0.2 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 17 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 8 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 8 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 8 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 8 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 8 | 0.2 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 8 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 17 | 0.2 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 17 | 0.2 |
| (1,850) | 1:A:73:ALA:HB1 | 1:A:137:ILE:H | 16 | 0.19 |
| (1,850) | 1:A:73:ALA:HB2 | 1:A:137:ILE:H | 16 | 0.19 |
| (1,850) | 1:A:73:ALA:HB3 | 1:A:137:ILE:H | 16 | 0.19 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 15 | 0.19 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 15 | 0.19 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 13 | 0.19 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 13 | 0.19 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 6 | 0.19 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 6 | 0.19 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 6 | 0.19 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 12 | 0.19 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 12 | 0.19 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 12 | 0.19 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD21 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD22 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD23 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD21 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD22 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD23 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD21 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD22 | 20 | 0.19 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD23 | 20 | 0.19 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG2 | 5 | 0.19 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG3 | 5 | 0.19 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 3 | 0.19 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 3 | 0.19 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 3 | 0.19 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 15 | 0.19 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 15 | 0.19 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 15 | 0.19 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 11 | 0.19 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 11 | 0.19 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 11 | 0.19 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 1 | 0.19 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 1 | 0.19 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 1 | 0.19 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 13 | 0.19 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 13 | 0.19 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 13 | 0.19 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 13 | 0.19 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 13 | 0.19 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 2 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 2 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 2 | 0.19 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 7 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 7 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 7 | 0.19 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 9 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 9 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 9 | 0.19 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 13 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 13 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 13 | 0.19 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 18 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 18 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 18 | 0.19 |
| (1,606) | 1:A:39:VAL:HG21 | 1:A:39:VAL:HA | 19 | 0.19 |
| (1,606) | 1:A:39:VAL:HG22 | 1:A:39:VAL:HA | 19 | 0.19 |
| (1,606) | 1:A:39:VAL:HG23 | 1:A:39:VAL:HA | 19 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 1 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 1 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 1 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 2 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 2 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 2 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 4 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 4 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 4 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 5 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 5 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 5 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 6 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 6 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 6 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 8 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 8 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 8 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 9 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 9 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 9 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 10 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 10 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 10 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 11 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 11 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 11 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 12 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 12 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 12 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 14 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 14 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 14 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 15 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 15 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 15 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 19 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 19 | 0.19 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 19 | 0.19 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 18 | 0.19 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 18 | 0.19 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 18 | 0.19 |
| (1,506) | 1:A:23:TRP:HD1 | 1:A:23:TRP:HA | 14 | 0.19 |
| (1,499) | 1:A:20:MET:HE1 | 1:A:65:ALA:HA | 7 | 0.19 |
| (1,499) | 1:A:20:MET:HE2 | 1:A:65:ALA:HA | 7 | 0.19 |
| (1,499) | 1:A:20:MET:HE3 | 1:A:65:ALA:HA | 7 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 2 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 2 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 2 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 4 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 4 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 4 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 5 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 5 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 5 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 6 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 6 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 6 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 12 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 12 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 12 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 14 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 14 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 14 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 19 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 19 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 19 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 20 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 20 | 0.19 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 20 | 0.19 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 5 | 0.19 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 5 | 0.19 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 5 | 0.19 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 20 | 0.19 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 1 | 0.19 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 1 | 0.19 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 1 | 0.19 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 1 | 0.19 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 1 | 0.19 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 1 | 0.19 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 4 | 0.19 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 4 | 0.19 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 6 | 0.19 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 6 | 0.19 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 6 | 0.19 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 12 | 0.19 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 12 | 0.19 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 12 | 0.19 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 15 | 0.19 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 15 | 0.19 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 15 | 0.19 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 2 | 0.19 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 2 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 17 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG21 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG22 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD21 | 1:A:78:ILE:HG23 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG21 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG22 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD22 | 1:A:78:ILE:HG23 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG21 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG22 | 20 | 0.19 |
| (1,368) | 1:A:55:LEU:HD23 | 1:A:78:ILE:HG23 | 20 | 0.19 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 2 | 0.19 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 2 | 0.19 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 2 | 0.19 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 14 | 0.19 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 6 | 0.19 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 6 | 0.19 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 12 | 0.19 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 12 | 0.19 |
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 3 | 0.19 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 3 | 0.19 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 3 | 0.19 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 16 | 0.19 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 16 | 0.19 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 16 | 0.19 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 16 | 0.19 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 16 | 0.19 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 16 | 0.19 |
| (1,2214) | 1:A:100:ILE:H | 1:A:42:VAL:HA | 9 | 0.19 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 3 | 0.19 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 3 | 0.19 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 3 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 14 | 0.19 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 14 | 0.19 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 14 | 0.19 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 10 | 0.19 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 10 | 0.19 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 10 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 2 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 2 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 2 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 19 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 19 | 0.19 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 19 | 0.19 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB2 | 1 | 0.19 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB3 | 1 | 0.19 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 15 | 0.19 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 15 | 0.19 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 15 | 0.19 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 5 | 0.19 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 11 | 0.19 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 11 | 0.19 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 3 | 0.19 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 3 | 0.19 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 8 | 0.19 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 8 | 0.19 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 11 | 0.19 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 11 | 0.19 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 2 | 0.19 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 2 | 0.19 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 3 | 0.19 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 3 | 0.19 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 13 | 0.19 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 13 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 1 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 1 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 1 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 9 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 9 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 9 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 15 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 15 | 0.19 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 15 | 0.19 |
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB2 | 11 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1853) | 1:A:173:GLU:H | 1:A:172:GLN:HB3 | 11 | 0.19 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG2 | 20 | 0.19 |
| (1,1779) | 1:A:20:MET:H | 1:A:20:MET:HG3 | 20 | 0.19 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 16 | 0.19 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 16 | 0.19 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 16 | 0.19 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 3 | 0.19 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 8 | 0.19 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 8 | 0.19 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 17 | 0.19 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 17 | 0.19 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 17 | 0.19 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 10 | 0.19 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 10 | 0.19 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 10 | 0.19 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 10 | 0.19 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 10 | 0.19 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 10 | 0.19 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 1 | 0.19 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 16 | 0.19 |
| (1,1482) | 1:A:121:LYS:HE2 | 1:A:114:GLN:HE22 | 9 | 0.19 |
| (1,1482) | 1:A:121:LYS:HE3 | 1:A:114:GLN:HE22 | 9 | 0.19 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG21 | 5 | 0.19 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG22 | 5 | 0.19 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG23 | 5 | 0.19 |
| (1,1312) | 1:A:156:ILE:HD11 | 1:A:156:ILE:H | 5 | 0.19 |
| (1,1312) | 1:A:156:ILE:HD12 | 1:A:156:ILE:H | 5 | 0.19 |
| (1,1312) | 1:A:156:ILE:HD13 | 1:A:156:ILE:H | 5 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD21 | 6 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD22 | 6 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD23 | 6 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD21 | 12 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD22 | 12 | 0.19 |
| (1,1273) | 1:A:148:LEU:HA | 1:A:148:LEU:HD23 | 12 | 0.19 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 4 | 0.19 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 4 | 0.19 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 11 | 0.19 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 11 | 0.19 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 11 | 0.19 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 11 | 0.19 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 11 | 0.19 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 11 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 11 | 0.19 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 11 | 0.19 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 6 | 0.18 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 6 | 0.18 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 6 | 0.18 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 12 | 0.18 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 12 | 0.18 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 12 | 0.18 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD2 | 4 | 0.18 |
| (1,97) | 1:A:9:ARG:HA | 1:A:9:ARG:HD3 | 4 | 0.18 |
| (1,94) | 1:A:58:LEU:HA | 1:A:78:ILE:HD11 | 5 | 0.18 |
| (1,94) | 1:A:58:LEU:HA | 1:A:78:ILE:HD12 | 5 | 0.18 |
| (1,94) | 1:A:58:LEU:HA | 1:A:78:ILE:HD13 | 5 | 0.18 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD2 | 10 | 0.18 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD3 | 10 | 0.18 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD2 | 10 | 0.18 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD3 | 10 | 0.18 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD2 | 10 | 0.18 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD3 | 10 | 0.18 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 6 | 0.18 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 12 | 0.18 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 12 | 0.18 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 12 | 0.18 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 12 | 0.18 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 12 | 0.18 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 12 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 5 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 13 | 0.18 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 13 | 0.18 |
| (1,748) | 1:A:62:LEU:HD11 | 1:A:45:VAL:HA | 19 | 0.18 |
| (1,748) | 1:A:62:LEU:HD12 | 1:A:45:VAL:HA | 19 | 0.18 |
| (1,748) | 1:A:62:LEU:HD13 | 1:A:45:VAL:HA | 19 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 1 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 17 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 18 | 0.18 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 18 | 0.18 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 15 | 0.18 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 15 | 0.18 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 15 | 0.18 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 18 | 0.18 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 18 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 18 | 0.18 |
| (1,601) | 1:A:39:VAL:HG11 | 1:A:39:VAL:H | 18 | 0.18 |
| (1,601) | 1:A:39:VAL:HG12 | 1:A:39:VAL:H | 18 | 0.18 |
| (1,601) | 1:A:39:VAL:HG13 | 1:A:39:VAL:H | 18 | 0.18 |
| (1,55) | 1:A:45:VAL:HA | 1:A:62:LEU:H | 7 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 3 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 3 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 3 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 7 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 7 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 7 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 18 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 18 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 18 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG11 | 20 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG12 | 20 | 0.18 |
| (1,540) | 1:A:27:VAL:HA | 1:A:27:VAL:HG13 | 20 | 0.18 |
| (1,54) | 1:A:23:TRP:H | 1:A:24:LEU:H | 8 | 0.18 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 9 | 0.18 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 9 | 0.18 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 9 | 0.18 |
| (1,506) | 1:A:23:TRP:HD1 | 1:A:23:TRP:HA | 19 | 0.18 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 13 | 0.18 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 13 | 0.18 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 13 | 0.18 |
| (1,488) | 1:A:15:THR:HB | 1:A:16:ALA:H | 11 | 0.18 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG21 | 15 | 0.18 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG22 | 15 | 0.18 |
| (1,479) | 1:A:12:VAL:HA | 1:A:12:VAL:HG23 | 15 | 0.18 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 3 | 0.18 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 3 | 0.18 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 1 | 0.18 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 1 | 0.18 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 1 | 0.18 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 11 | 0.18 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 11 | 0.18 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 11 | 0.18 |
| (1,359) | 1:A:42:VAL:HB | 1:A:20:MET:HA | 4 | 0.18 |
| (1,341) | 1:A:20:MET:HE1 | 1:A:66:ASN:H | 4 | 0.18 |
| (1,341) | 1:A:20:MET:HE2 | 1:A:66:ASN:H | 4 | 0.18 |
| (1,341) | 1:A:20:MET:HE3 | 1:A:66:ASN:H | 4 | 0.18 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 19 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 2 | 0.18 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 2 | 0.18 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 2 | 0.18 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 9 | 0.18 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 9 | 0.18 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 9 | 0.18 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 9 | 0.18 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 9 | 0.18 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 9 | 0.18 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 1 | 0.18 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 1 | 0.18 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 1 | 0.18 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 4 | 0.18 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 4 | 0.18 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 4 | 0.18 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 7 | 0.18 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 13 | 0.18 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 19 | 0.18 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 19 | 0.18 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 19 | 0.18 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 13 | 0.18 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 13 | 0.18 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 8 | 0.18 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 1 | 0.18 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 11 | 0.18 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 18 | 0.18 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 18 | 0.18 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 4 | 0.18 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 4 | 0.18 |
| (1,1935) | 1:A:33:LEU:HD21 | 1:A:33:LEU:H | 16 | 0.18 |
| (1,1935) | 1:A:33:LEU:HD22 | 1:A:33:LEU:H | 16 | 0.18 |
| (1,1935) | 1:A:33:LEU:HD23 | 1:A:33:LEU:H | 16 | 0.18 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 3 | 0.18 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 3 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 4 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 4 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 4 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB1 | 19 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB2 | 19 | 0.18 |
| (1,1894) | 1:A:76:LYS:H | 1:A:77:ALA:HB3 | 19 | 0.18 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 10 | 0.18 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 6 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 6 | 0.18 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 12 | 0.18 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 12 | 0.18 |
| (1,1718) | 1:A:115:GLY:H | 1:A:111:ASP:HA | 5 | 0.18 |
| (1,1596) | 1:A:102:SER:H | 1:A:101:HIS:HD2 | 19 | 0.18 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 2 | 0.18 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 4 | 0.18 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 9 | 0.18 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 15 | 0.18 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 17 | 0.18 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 17 | 0.18 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 17 | 0.18 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 3 | 0.18 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 3 | 0.18 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 3 | 0.18 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 8 | 0.18 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 8 | 0.18 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 8 | 0.18 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 15 | 0.18 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 15 | 0.18 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 15 | 0.18 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 9 | 0.18 |
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 9 | 0.18 |
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 9 | 0.18 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 14 | 0.18 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 14 | 0.18 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 16 | 0.18 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 17 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 7 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 7 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 7 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 7 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 7 | 0.18 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 7 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 2 | 0.18 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 2 | 0.18 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 9 | 0.18 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 9 | 0.18 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 9 | 0.18 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 9 | 0.18 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 9 | 0.18 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 9 | 0.18 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 16 | 0.17 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 16 | 0.17 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 16 | 0.17 |
| (1,862) | 1:A:74:ASN:HB2 | 1:A:138:ASN:HD21 | 11 | 0.17 |
| (1,862) | 1:A:74:ASN:HB3 | 1:A:138:ASN:HD21 | 11 | 0.17 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD11 | 2 | 0.17 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD12 | 2 | 0.17 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD13 | 2 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 3 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 18 | 0.17 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 18 | 0.17 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 19 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|----------------|----------|---------------|
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 3 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 20 | 0.17 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 20 | 0.17 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 6 | 0.17 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 6 | 0.17 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 6 | 0.17 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 12 | 0.17 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 12 | 0.17 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 12 | 0.17 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 13 | 0.17 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 13 | 0.17 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 13 | 0.17 |
| (1,669) | 1:A:47:ARG:HD2 | 1:A:48:ILE:H | 11 | 0.17 |
| (1,669) | 1:A:47:ARG:HD3 | 1:A:48:ILE:H | 11 | 0.17 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 13 | 0.17 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 13 | 0.17 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 13 | 0.17 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 20 | 0.17 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 20 | 0.17 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 20 | 0.17 |
| (1,637) | 1:A:42:VAL:HG21 | 1:A:99:MET:HA | 14 | 0.17 |
| (1,637) | 1:A:42:VAL:HG22 | 1:A:99:MET:HA | 14 | 0.17 |
| (1,637) | 1:A:42:VAL:HG23 | 1:A:99:MET:HA | 14 | 0.17 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 17 | 0.17 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 17 | 0.17 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 17 | 0.17 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 17 | 0.17 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 17 | 0.17 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 17 | 0.17 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 2 | 0.17 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 2 | 0.17 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 2 | 0.17 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 8 | 0.17 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 8 | 0.17 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 11 | 0.17 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 11 | 0.17 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 11 | 0.17 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 9 | 0.17 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 9 | 0.17 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 9 | 0.17 |
| (1,48) | 1:A:150:LEU:HD11 | 1:A:46:LEU:HD11 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD11 | 1:A:46:LEU:HD12 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD11 | 1:A:46:LEU:HD13 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD12 | 1:A:46:LEU:HD11 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD12 | 1:A:46:LEU:HD12 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD12 | 1:A:46:LEU:HD13 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD13 | 1:A:46:LEU:HD11 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD13 | 1:A:46:LEU:HD12 | 16 | 0.17 |
| (1,48) | 1:A:150:LEU:HD13 | 1:A:46:LEU:HD13 | 16 | 0.17 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 1 | 0.17 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 1 | 0.17 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 1 | 0.17 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 18 | 0.17 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 18 | 0.17 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 18 | 0.17 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 3 | 0.17 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 3 | 0.17 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 3 | 0.17 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 7 | 0.17 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 7 | 0.17 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 7 | 0.17 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG21 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG22 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD21 | 1:A:39:VAL:HG23 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG21 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG22 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD22 | 1:A:39:VAL:HG23 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG21 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG22 | 13 | 0.17 |
| (1,43) | 1:A:33:LEU:HD23 | 1:A:39:VAL:HG23 | 13 | 0.17 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 7 | 0.17 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 7 | 0.17 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 17 | 0.17 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 17 | 0.17 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 7 | 0.17 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 7 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 7 | 0.17 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 13 | 0.17 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 13 | 0.17 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 13 | 0.17 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 18 | 0.17 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 18 | 0.17 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 18 | 0.17 |
| (1,364) | 1:A:47:ARG:HD2 | 1:A:61:CYS:H | 18 | 0.17 |
| (1,364) | 1:A:47:ARG:HD3 | 1:A:61:CYS:H | 18 | 0.17 |
| (1,339) | 1:A:8:SER:HB2 | 1:A:9:ARG:HG2 | 9 | 0.17 |
| (1,339) | 1:A:8:SER:HB2 | 1:A:9:ARG:HG3 | 9 | 0.17 |
| (1,339) | 1:A:8:SER:HB3 | 1:A:9:ARG:HG2 | 9 | 0.17 |
| (1,339) | 1:A:8:SER:HB3 | 1:A:9:ARG:HG3 | 9 | 0.17 |
| (1,334) | 1:A:26:PRO:HB2 | 1:A:31:ALA:H | 13 | 0.17 |
| (1,334) | 1:A:26:PRO:HB3 | 1:A:31:ALA:H | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 13 | 0.17 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 13 | 0.17 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 11 | 0.17 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 7 | 0.17 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 7 | 0.17 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 7 | 0.17 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 19 | 0.17 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 19 | 0.17 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 19 | 0.17 |
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG2 | 7 | 0.17 |
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG3 | 7 | 0.17 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE1 | 3 | 0.17 |
| (1,28) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HE2 | 3 | 0.17 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE1 | 3 | 0.17 |
| (1,28) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HE2 | 3 | 0.17 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE1 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE2 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE1 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE2 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE1 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE2 | 6 | 0.17 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE1 | 12 | 0.17 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE2 | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE1 | 12 | 0.17 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE2 | 12 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE1 | 12 | 0.17 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE2 | 12 | 0.17 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 4 | 0.17 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 4 | 0.17 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 4 | 0.17 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 9 | 0.17 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 9 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 13 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 13 | 0.17 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 13 | 0.17 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 9 | 0.17 |
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 9 | 0.17 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 9 | 0.17 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 8 | 0.17 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 16 | 0.17 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 16 | 0.17 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 4 | 0.17 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 9 | 0.17 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 16 | 0.17 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG21 | 14 | 0.17 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG22 | 14 | 0.17 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG23 | 14 | 0.17 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 5 | 0.17 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 5 | 0.17 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 1 | 0.17 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 1 | 0.17 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 8 | 0.17 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 8 | 0.17 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD1 | 9 | 0.17 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD2 | 9 | 0.17 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 2 | 0.17 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 2 | 0.17 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 2 | 0.17 |
| (1,1918) | 1:A:13:ARG:H | 1:A:12:VAL:HB | 15 | 0.17 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 18 | 0.17 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 18 | 0.17 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB2 | 16 | 0.17 |
| (1,1832) | 1:A:88:ARG:H | 1:A:87:ARG:HB3 | 16 | 0.17 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD11 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD12 | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD13 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD11 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD12 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD13 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD11 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD12 | 17 | 0.17 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD13 | 17 | 0.17 |
| (1,179) | 1:A:24:LEU:HG | 1:A:25:GLU:H | 17 | 0.17 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 4 | 0.17 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 4 | 0.17 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 5 | 0.17 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 5 | 0.17 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 7 | 0.17 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 16 | 0.17 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 16 | 0.17 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 16 | 0.17 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 17 | 0.17 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB2 | 1 | 0.17 |
| (1,161) | 1:A:156:ILE:HG21 | 1:A:63:CYS:HB3 | 1 | 0.17 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB2 | 1 | 0.17 |
| (1,161) | 1:A:156:ILE:HG22 | 1:A:63:CYS:HB3 | 1 | 0.17 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB2 | 1 | 0.17 |
| (1,161) | 1:A:156:ILE:HG23 | 1:A:63:CYS:HB3 | 1 | 0.17 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 8 | 0.17 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 14 | 0.17 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD1 | 2 | 0.17 |
| (1,1547) | 1:A:168:ARG:H | 1:A:169:PHE:HD2 | 2 | 0.17 |
| (1,1520) | 1:A:91:GLN:HE22 | 1:A:90:THR:HB | 17 | 0.17 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 2 | 0.17 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 2 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 13 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 13 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 13 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 13 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 13 | 0.17 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 13 | 0.17 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 11 | 0.17 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 11 | 0.17 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 11 | 0.17 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB1 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB2 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB3 | 14 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB1 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB2 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB3 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB1 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB2 | 14 | 0.17 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB3 | 14 | 0.17 |
| (1,1279) | 1:A:149:ILE:HD11 | 1:A:149:ILE:HA | 1 | 0.17 |
| (1,1279) | 1:A:149:ILE:HD12 | 1:A:149:ILE:HA | 1 | 0.17 |
| (1,1279) | 1:A:149:ILE:HD13 | 1:A:149:ILE:HA | 1 | 0.17 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 16 | 0.17 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 16 | 0.17 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 16 | 0.17 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 11 | 0.17 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 11 | 0.17 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 11 | 0.17 |
| (1,1159) | 1:A:109:ASN:HB2 | 1:A:130:PRO:HA | 3 | 0.17 |
| (1,1159) | 1:A:109:ASN:HB3 | 1:A:130:PRO:HA | 3 | 0.17 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 10 | 0.17 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 10 | 0.17 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 10 | 0.17 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 18 | 0.17 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 18 | 0.17 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 19 | 0.17 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 20 | 0.17 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 20 | 0.17 |
| (1,974) | 1:A:45:VAL:HG21 | 1:A:95:ASN:H | 3 | 0.16 |
| (1,974) | 1:A:45:VAL:HG22 | 1:A:95:ASN:H | 3 | 0.16 |
| (1,974) | 1:A:45:VAL:HG23 | 1:A:95:ASN:H | 3 | 0.16 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 3 | 0.16 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 3 | 0.16 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 3 | 0.16 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 9 | 0.16 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 9 | 0.16 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 9 | 0.16 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 13 | 0.16 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 13 | 0.16 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 13 | 0.16 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,95) | 1:A:8:SER:HA | 1:A:11:ALA:HB1 | 2 | 0.16 |
| (1,95) | 1:A:8:SER:HA | 1:A:11:ALA:HB2 | 2 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,95) | 1:A:8:SER:HA | 1:A:11:ALA:HB3 | 2 | 0.16 |
| (1,862) | 1:A:74:ASN:HB2 | 1:A:138:ASN:HD21 | 6 | 0.16 |
| (1,862) | 1:A:74:ASN:HB3 | 1:A:138:ASN:HD21 | 6 | 0.16 |
| (1,862) | 1:A:74:ASN:HB2 | 1:A:138:ASN:HD21 | 12 | 0.16 |
| (1,862) | 1:A:74:ASN:HB3 | 1:A:138:ASN:HD21 | 12 | 0.16 |
| (1,854) | 1:A:73:ALA:HB1 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,854) | 1:A:73:ALA:HB2 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,854) | 1:A:73:ALA:HB3 | 1:A:140:PHE:HZ | 4 | 0.16 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 3 | 0.16 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 3 | 0.16 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 3 | 0.16 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 3 | 0.16 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 3 | 0.16 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 3 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 6 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 12 | 0.16 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 12 | 0.16 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD21 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD22 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD23 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD21 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD22 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD23 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD21 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD22 | 1 | 0.16 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD23 | 1 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 7 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 8 | 0.16 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 8 | 0.16 |
| (1,700) | 1:A:55:LEU:HD11 | 1:A:55:LEU:H | 5 | 0.16 |
| (1,700) | 1:A:55:LEU:HD12 | 1:A:55:LEU:H | 5 | 0.16 |
| (1,700) | 1:A:55:LEU:HD13 | 1:A:55:LEU:H | 5 | 0.16 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 7 | 0.16 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 7 | 0.16 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 7 | 0.16 |
| (1,660) | 1:A:46:LEU:HD21 | 1:A:46:LEU:HA | 5 | 0.16 |
| (1,660) | 1:A:46:LEU:HD22 | 1:A:46:LEU:HA | 5 | 0.16 |
| (1,660) | 1:A:46:LEU:HD23 | 1:A:46:LEU:HA | 5 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD11 | 6 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD12 | 6 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD13 | 6 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD11 | 12 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD12 | 12 | 0.16 |
| (1,60) | 1:A:120:LEU:HA | 1:A:120:LEU:HD13 | 12 | 0.16 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 3 | 0.16 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 3 | 0.16 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 3 | 0.16 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 6 | 0.16 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 6 | 0.16 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 6 | 0.16 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 12 | 0.16 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 12 | 0.16 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 12 | 0.16 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 19 | 0.16 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 19 | 0.16 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 11 | 0.16 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 11 | 0.16 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 11 | 0.16 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 20 | 0.16 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 20 | 0.16 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 20 | 0.16 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 20 | 0.16 |
| (1,425) | 1:A:62:LEU:HD11 | 1:A:43:LEU:HA | 18 | 0.16 |
| (1,425) | 1:A:62:LEU:HD12 | 1:A:43:LEU:HA | 18 | 0.16 |
| (1,425) | 1:A:62:LEU:HD13 | 1:A:43:LEU:HA | 18 | 0.16 |
| (1,40) | 1:A:33:LEU:HD21 | 1:A:39:VAL:H | 7 | 0.16 |
| (1,40) | 1:A:33:LEU:HD22 | 1:A:39:VAL:H | 7 | 0.16 |
| (1,40) | 1:A:33:LEU:HD23 | 1:A:39:VAL:H | 7 | 0.16 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 3 | 0.16 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 3 | 0.16 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 3 | 0.16 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 4 | 0.16 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 4 | 0.16 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 4 | 0.16 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 5 | 0.16 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 5 | 0.16 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 5 | 0.16 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 9 | 0.16 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 9 | 0.16 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 9 | 0.16 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB1 | 5 | 0.16 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB2 | 5 | 0.16 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB3 | 5 | 0.16 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 4 | 0.16 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 11 | 0.16 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 11 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 11 | 0.16 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 11 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 11 | 0.16 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 11 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 9 | 0.16 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 9 | 0.16 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 9 | 0.16 |
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 11 | 0.16 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 11 | 0.16 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 11 | 0.16 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 1 | 0.16 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 1 | 0.16 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 1 | 0.16 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 11 | 0.16 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 11 | 0.16 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 11 | 0.16 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 13 | 0.16 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 13 | 0.16 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 13 | 0.16 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 10 | 0.16 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 10 | 0.16 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 10 | 0.16 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 13 | 0.16 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 13 | 0.16 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 13 | 0.16 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 13 | 0.16 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE1 | 14 | 0.16 |
| (1,244) | 1:A:78:ILE:HG21 | 1:A:75:TYR:HE2 | 14 | 0.16 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE1 | 14 | 0.16 |
| (1,244) | 1:A:78:ILE:HG22 | 1:A:75:TYR:HE2 | 14 | 0.16 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE1 | 14 | 0.16 |
| (1,244) | 1:A:78:ILE:HG23 | 1:A:75:TYR:HE2 | 14 | 0.16 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 11 | 0.16 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 11 | 0.16 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 11 | 0.16 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 1 | 0.16 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 1 | 0.16 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 1 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 4 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 4 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 4 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 15 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 15 | 0.16 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 15 | 0.16 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 3 | 0.16 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB2 | 19 | 0.16 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB3 | 19 | 0.16 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 2 | 0.16 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 18 | 0.16 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 4 | 0.16 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 4 | 0.16 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 19 | 0.16 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 16 | 0.16 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 16 | 0.16 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 7 | 0.16 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 7 | 0.16 |
| (1,1881) | 1:A:174:PHE:HB2 | 1:A:174:PHE:H | 19 | 0.16 |
| (1,1881) | 1:A:174:PHE:HB3 | 1:A:174:PHE:H | 19 | 0.16 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB2 | 13 | 0.16 |
| (1,1875) | 1:A:177:GLU:H | 1:A:176:ASP:HB3 | 13 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 14 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 14 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 14 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 20 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 20 | 0.16 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 20 | 0.16 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 8 | 0.16 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 8 | 0.16 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 8 | 0.16 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 11 | 0.16 |
| (1,1758) | 1:A:54:THR:HG21 | 1:A:55:LEU:H | 1 | 0.16 |
| (1,1758) | 1:A:54:THR:HG22 | 1:A:55:LEU:H | 1 | 0.16 |
| (1,1758) | 1:A:54:THR:HG23 | 1:A:55:LEU:H | 1 | 0.16 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 5 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 6 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 6 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 6 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 12 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 12 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 12 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 16 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 16 | 0.16 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 16 | 0.16 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 7 | 0.16 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 18 | 0.16 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 20 | 0.16 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 3 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 20 | 0.16 |
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 20 | 0.16 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 20 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 4 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 17 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 17 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 17 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 17 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 17 | 0.16 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 17 | 0.16 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 7 | 0.16 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 7 | 0.16 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 7 | 0.16 |
| (1,1306) | 1:A:155:THR:HG21 | 1:A:156:ILE:HB | 20 | 0.16 |
| (1,1306) | 1:A:155:THR:HG22 | 1:A:156:ILE:HB | 20 | 0.16 |
| (1,1306) | 1:A:155:THR:HG23 | 1:A:156:ILE:HB | 20 | 0.16 |
| (1,1303) | 1:A:155:THR:HB | 1:A:156:ILE:H | 5 | 0.16 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 13 | 0.16 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 13 | 0.16 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 13 | 0.16 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 1 | 0.16 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 1 | 0.16 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 1 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 1 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 1 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 1 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 6 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 6 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 6 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 7 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 7 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 7 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 12 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 12 | 0.16 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 12 | 0.16 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 10 | 0.16 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 10 | 0.16 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 3 | 0.16 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 3 | 0.16 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 8 | 0.16 |
| (1,115) | 1:A:119:GLY:HA2 | 1:A:114:GLN:HG2 | 5 | 0.16 |
| (1,115) | 1:A:119:GLY:HA2 | 1:A:114:GLN:HG3 | 5 | 0.16 |
| (1,115) | 1:A:119:GLY:HA3 | 1:A:114:GLN:HG2 | 5 | 0.16 |
| (1,115) | 1:A:119:GLY:HA3 | 1:A:114:GLN:HG3 | 5 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 19 | 0.16 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 19 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD1 | 10 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD2 | 10 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD1 | 10 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD2 | 10 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD1 | 10 | 0.16 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD2 | 10 | 0.16 |
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 20 | 0.16 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 20 | 0.16 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 20 | 0.16 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 10 | 0.15 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 10 | 0.15 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 10 | 0.15 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 11 | 0.15 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 11 | 0.15 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 11 | 0.15 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 16 | 0.15 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 16 | 0.15 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 16 | 0.15 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD2 | 11 | 0.15 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD3 | 11 | 0.15 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD2 | 11 | 0.15 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD3 | 11 | 0.15 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD2 | 11 | 0.15 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD3 | 11 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 3 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 5 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 5 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 6 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 6 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 8 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 8 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 12 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 12 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 15 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 15 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 16 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 16 | 0.15 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 17 | 0.15 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 17 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 10 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 11 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 19 | 0.15 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 19 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 3 | 0.15 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 4 | 0.15 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 13 | 0.15 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 20 | 0.15 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG2 | 11 | 0.15 |
| (1,689) | 1:A:50:PRO:HA | 1:A:50:PRO:HG3 | 11 | 0.15 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 5 | 0.15 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 5 | 0.15 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 5 | 0.15 |
| (1,655) | 1:A:42:VAL:HG21 | 1:A:100:ILE:H | 4 | 0.15 |
| (1,655) | 1:A:42:VAL:HG22 | 1:A:100:ILE:H | 4 | 0.15 |
| (1,655) | 1:A:42:VAL:HG23 | 1:A:100:ILE:H | 4 | 0.15 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD1 | 20 | 0.15 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD2 | 20 | 0.15 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD1 | 20 | 0.15 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD2 | 20 | 0.15 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD1 | 20 | 0.15 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD2 | 20 | 0.15 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 7 | 0.15 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 7 | 0.15 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 7 | 0.15 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 7 | 0.15 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 7 | 0.15 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 7 | 0.15 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 16 | 0.15 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 16 | 0.15 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 16 | 0.15 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 5 | 0.15 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 5 | 0.15 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 5 | 0.15 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 10 | 0.15 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 10 | 0.15 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 10 | 0.15 |
| (1,497) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG11 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG12 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG13 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG11 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG12 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG13 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG11 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG12 | 4 | 0.15 |
| (1,497) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG13 | 4 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD1 | 18 | 0.15 |
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD2 | 18 | 0.15 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 6 | 0.15 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 6 | 0.15 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 6 | 0.15 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 10 | 0.15 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 10 | 0.15 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 10 | 0.15 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 12 | 0.15 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 12 | 0.15 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 12 | 0.15 |
| (1,455) | 1:A:20:MET:HE1 | 1:A:43:LEU:HD11 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE1 | 1:A:43:LEU:HD12 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE1 | 1:A:43:LEU:HD13 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE2 | 1:A:43:LEU:HD11 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE2 | 1:A:43:LEU:HD12 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE2 | 1:A:43:LEU:HD13 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE3 | 1:A:43:LEU:HD11 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE3 | 1:A:43:LEU:HD12 | 10 | 0.15 |
| (1,455) | 1:A:20:MET:HE3 | 1:A:43:LEU:HD13 | 10 | 0.15 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 10 | 0.15 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 10 | 0.15 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 10 | 0.15 |
| (1,425) | 1:A:62:LEU:HD11 | 1:A:43:LEU:HA | 3 | 0.15 |
| (1,425) | 1:A:62:LEU:HD12 | 1:A:43:LEU:HA | 3 | 0.15 |
| (1,425) | 1:A:62:LEU:HD13 | 1:A:43:LEU:HA | 3 | 0.15 |
| (1,418) | 1:A:72:PHE:HB2 | 1:A:60:LEU:H | 4 | 0.15 |
| (1,418) | 1:A:72:PHE:HB3 | 1:A:60:LEU:H | 4 | 0.15 |
| (1,409) | 1:A:171:GLU:HB2 | 1:A:172:GLN:H | 17 | 0.15 |
| (1,409) | 1:A:171:GLU:HB3 | 1:A:172:GLN:H | 17 | 0.15 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 16 | 0.15 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 16 | 0.15 |
| (1,40) | 1:A:33:LEU:HD21 | 1:A:39:VAL:H | 5 | 0.15 |
| (1,40) | 1:A:33:LEU:HD22 | 1:A:39:VAL:H | 5 | 0.15 |
| (1,40) | 1:A:33:LEU:HD23 | 1:A:39:VAL:H | 5 | 0.15 |
| (1,40) | 1:A:33:LEU:HD21 | 1:A:39:VAL:H | 13 | 0.15 |
| (1,40) | 1:A:33:LEU:HD22 | 1:A:39:VAL:H | 13 | 0.15 |
| (1,40) | 1:A:33:LEU:HD23 | 1:A:39:VAL:H | 13 | 0.15 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD1 | 9 | 0.15 |
| (1,37) | 1:A:33:LEU:HD11 | 1:A:37:TYR:HD2 | 9 | 0.15 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD1 | 9 | 0.15 |
| (1,37) | 1:A:33:LEU:HD12 | 1:A:37:TYR:HD2 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD1 | 9 | 0.15 |
| (1,37) | 1:A:33:LEU:HD13 | 1:A:37:TYR:HD2 | 9 | 0.15 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD1 | 20 | 0.15 |
| (1,351) | 1:A:144:ASN:HB2 | 1:A:143:PHE:HD2 | 20 | 0.15 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD1 | 20 | 0.15 |
| (1,351) | 1:A:144:ASN:HB3 | 1:A:143:PHE:HD2 | 20 | 0.15 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 16 | 0.15 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 16 | 0.15 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 16 | 0.15 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 16 | 0.15 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 16 | 0.15 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 16 | 0.15 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 3 | 0.15 |
| (1,302) | 1:A:15:THR:HG21 | 1:A:15:THR:HA | 16 | 0.15 |
| (1,302) | 1:A:15:THR:HG22 | 1:A:15:THR:HA | 16 | 0.15 |
| (1,302) | 1:A:15:THR:HG23 | 1:A:15:THR:HA | 16 | 0.15 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG21 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG22 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG23 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG21 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG22 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG23 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG21 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG22 | 14 | 0.15 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG23 | 14 | 0.15 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 5 | 0.15 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 5 | 0.15 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 5 | 0.15 |
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 17 | 0.15 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 17 | 0.15 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 17 | 0.15 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 6 | 0.15 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 6 | 0.15 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 6 | 0.15 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 12 | 0.15 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 12 | 0.15 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 12 | 0.15 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 10 | 0.15 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 10 | 0.15 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 10 | 0.15 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 10 | 0.15 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 10 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 10 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 8 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 8 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 8 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 13 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 13 | 0.15 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 13 | 0.15 |
| (1,27) | 1:A:167:ALA:HA | 1:A:171:GLU:H | 15 | 0.15 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 10 | 0.15 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 10 | 0.15 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 10 | 0.15 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 19 | 0.15 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 19 | 0.15 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 19 | 0.15 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD21 | 17 | 0.15 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD22 | 17 | 0.15 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD21 | 17 | 0.15 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD22 | 17 | 0.15 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 10 | 0.15 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 10 | 0.15 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 10 | 0.15 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 10 | 0.15 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 10 | 0.15 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 10 | 0.15 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 14 | 0.15 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 14 | 0.15 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 14 | 0.15 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 19 | 0.15 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 19 | 0.15 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 19 | 0.15 |
| (1,2180) | 1:A:140:PHE:HD1 | 1:A:142:MET:H | 13 | 0.15 |
| (1,2180) | 1:A:140:PHE:HD2 | 1:A:142:MET:H | 13 | 0.15 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB2 | 16 | 0.15 |
| (1,2179) | 1:A:142:MET:H | 1:A:84:LYS:HB3 | 16 | 0.15 |
| (1,2125) | 1:A:103:PHE:H | 1:A:38:LYS:HG2 | 18 | 0.15 |
| (1,2125) | 1:A:103:PHE:H | 1:A:38:LYS:HG3 | 18 | 0.15 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 11 | 0.15 |
| (1,2114) | 1:A:72:PHE:HD1 | 1:A:72:PHE:H | 20 | 0.15 |
| (1,2114) | 1:A:72:PHE:HD2 | 1:A:72:PHE:H | 20 | 0.15 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 1 | 0.15 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 14 | 0.15 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 13 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 13 | 0.15 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 15 | 0.15 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 15 | 0.15 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 15 | 0.15 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 15 | 0.15 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 15 | 0.15 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 20 | 0.15 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 20 | 0.15 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 17 | 0.15 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 7 | 0.15 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 7 | 0.15 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 7 | 0.15 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 9 | 0.15 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 9 | 0.15 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 9 | 0.15 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD21 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD22 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD23 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD21 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD22 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD23 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD21 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD22 | 1 | 0.15 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD23 | 1 | 0.15 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 5 | 0.15 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 5 | 0.15 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 5 | 0.15 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 9 | 0.15 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 9 | 0.15 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 9 | 0.15 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 4 | 0.15 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 4 | 0.15 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 4 | 0.15 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 4 | 0.15 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 4 | 0.15 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 4 | 0.15 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD11 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD12 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD13 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD11 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD12 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD13 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD11 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD12 | 9 | 0.15 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD13 | 9 | 0.15 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 2 | 0.15 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 2 | 0.15 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 4 | 0.15 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 4 | 0.15 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 8 | 0.15 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 8 | 0.15 |
| (1,1726) | 1:A:166:ILE:HA | 1:A:171:GLU:H | 13 | 0.15 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 2 | 0.15 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 20 | 0.15 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 17 | 0.15 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 17 | 0.15 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 2 | 0.15 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 18 | 0.15 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 18 | 0.15 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 18 | 0.15 |
| (1,1633) | 1:A:156:ILE:HB | 1:A:155:THR:H | 17 | 0.15 |
| (1,1621) | 1:A:91:GLN:HE21 | 1:A:88:ARG:HA | 17 | 0.15 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 1 | 0.15 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 1 | 0.15 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 1 | 0.15 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 1 | 0.15 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 1 | 0.15 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 1 | 0.15 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 3 | 0.15 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 16 | 0.15 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 18 | 0.15 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD11 | 11 | 0.15 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD12 | 11 | 0.15 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD13 | 11 | 0.15 |
| (1,150) | 1:A:166:ILE:HG21 | 1:A:170:ILE:H | 15 | 0.15 |
| (1,150) | 1:A:166:ILE:HG22 | 1:A:170:ILE:H | 15 | 0.15 |
| (1,150) | 1:A:166:ILE:HG23 | 1:A:170:ILE:H | 15 | 0.15 |
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD2 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD3 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD2 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD3 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD2 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD3 | 4 | 0.15 |
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD2 | 20 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,148) | 1:A:167:ALA:HB1 | 1:A:164:ARG:HD3 | 20 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD2 | 20 | 0.15 |
| (1,148) | 1:A:167:ALA:HB2 | 1:A:164:ARG:HD3 | 20 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD2 | 20 | 0.15 |
| (1,148) | 1:A:167:ALA:HB3 | 1:A:164:ARG:HD3 | 20 | 0.15 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG21 | 14 | 0.15 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG22 | 14 | 0.15 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG23 | 14 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD11 | 1:A:129:PHE:HD1 | 16 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD11 | 1:A:129:PHE:HD2 | 16 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD12 | 1:A:129:PHE:HD1 | 16 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD12 | 1:A:129:PHE:HD2 | 16 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD13 | 1:A:129:PHE:HD1 | 16 | 0.15 |
| (1,1411) | 1:A:170:ILE:HD13 | 1:A:129:PHE:HD2 | 16 | 0.15 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 1 | 0.15 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 1 | 0.15 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 1 | 0.15 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 5 | 0.15 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 5 | 0.15 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 5 | 0.15 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 6 | 0.15 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 6 | 0.15 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 6 | 0.15 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 12 | 0.15 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 12 | 0.15 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 12 | 0.15 |
| (1,122) | 1:A:114:GLN:HA | 1:A:119:GLY:H | 15 | 0.15 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 13 | 0.15 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 13 | 0.15 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 13 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 9 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 9 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 9 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 19 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 19 | 0.15 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 19 | 0.15 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 17 | 0.15 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 17 | 0.15 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 17 | 0.15 |
| (1,1159) | 1:A:109:ASN:HB2 | 1:A:130:PRO:HA | 4 | 0.15 |
| (1,1159) | 1:A:109:ASN:HB3 | 1:A:130:PRO:HA | 4 | 0.15 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 4 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 10 | 0.15 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 18 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 4 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 4 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 4 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 4 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 4 | 0.15 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 4 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 14 | 0.15 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 14 | 0.15 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 17 | 0.15 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 17 | 0.15 |
| (1,1016) | 1:A:99:MET:HE1 | 1:A:143:PHE:HZ | 11 | 0.15 |
| (1,1016) | 1:A:99:MET:HE2 | 1:A:143:PHE:HZ | 11 | 0.15 |
| (1,1016) | 1:A:99:MET:HE3 | 1:A:143:PHE:HZ | 11 | 0.15 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 3 | 0.15 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 4 | 0.15 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 4 | 0.15 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 4 | 0.15 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 4 | 0.15 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 4 | 0.15 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 4 | 0.15 |
| (1,1005) | 1:A:98:ILE:HG21 | 1:A:143:PHE:H | 4 | 0.15 |
| (1,1005) | 1:A:98:ILE:HG22 | 1:A:143:PHE:H | 4 | 0.15 |
| (1,1005) | 1:A:98:ILE:HG23 | 1:A:143:PHE:H | 4 | 0.15 |
| (1,990) | 1:A:45:VAL:HG11 | 1:A:98:ILE:HD11 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG11 | 1:A:98:ILE:HD12 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG11 | 1:A:98:ILE:HD13 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG12 | 1:A:98:ILE:HD11 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG12 | 1:A:98:ILE:HD12 | 17 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,990) | 1:A:45:VAL:HG12 | 1:A:98:ILE:HD13 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG13 | 1:A:98:ILE:HD11 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG13 | 1:A:98:ILE:HD12 | 17 | 0.14 |
| (1,990) | 1:A:45:VAL:HG13 | 1:A:98:ILE:HD13 | 17 | 0.14 |
| (1,956) | 1:A:90:THR:HB | 1:A:58:LEU:HD21 | 18 | 0.14 |
| (1,956) | 1:A:90:THR:HB | 1:A:58:LEU:HD22 | 18 | 0.14 |
| (1,956) | 1:A:90:THR:HB | 1:A:58:LEU:HD23 | 18 | 0.14 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 8 | 0.14 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 8 | 0.14 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 8 | 0.14 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 9 | 0.14 |
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 9 | 0.14 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 9 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 4 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 4 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 7 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 7 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 9 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 9 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 10 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 10 | 0.14 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 14 | 0.14 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 14 | 0.14 |
| (1,849) | 1:A:73:ALA:HB1 | 1:A:74:ASN:H | 13 | 0.14 |
| (1,849) | 1:A:73:ALA:HB2 | 1:A:74:ASN:H | 13 | 0.14 |
| (1,849) | 1:A:73:ALA:HB3 | 1:A:74:ASN:H | 13 | 0.14 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 16 | 0.14 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 16 | 0.14 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 16 | 0.14 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 16 | 0.14 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 16 | 0.14 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 16 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 5 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 6 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 7 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 8 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 12 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 14 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 16 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 17 | 0.14 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 18 | 0.14 |
| (1,701) | 1:A:55:LEU:HD21 | 1:A:55:LEU:H | 1 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,701) | 1:A:55:LEU:HD22 | 1:A:55:LEU:H | 1 | 0.14 |
| (1,701) | 1:A:55:LEU:HD23 | 1:A:55:LEU:H | 1 | 0.14 |
| (1,659) | 1:A:46:LEU:HD21 | 1:A:46:LEU:H | 14 | 0.14 |
| (1,659) | 1:A:46:LEU:HD22 | 1:A:46:LEU:H | 14 | 0.14 |
| (1,659) | 1:A:46:LEU:HD23 | 1:A:46:LEU:H | 14 | 0.14 |
| (1,655) | 1:A:42:VAL:HG21 | 1:A:100:ILE:H | 8 | 0.14 |
| (1,655) | 1:A:42:VAL:HG22 | 1:A:100:ILE:H | 8 | 0.14 |
| (1,655) | 1:A:42:VAL:HG23 | 1:A:100:ILE:H | 8 | 0.14 |
| (1,637) | 1:A:42:VAL:HG21 | 1:A:99:MET:HA | 17 | 0.14 |
| (1,637) | 1:A:42:VAL:HG22 | 1:A:99:MET:HA | 17 | 0.14 |
| (1,637) | 1:A:42:VAL:HG23 | 1:A:99:MET:HA | 17 | 0.14 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 18 | 0.14 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 18 | 0.14 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 18 | 0.14 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 2 | 0.14 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 2 | 0.14 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 2 | 0.14 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 9 | 0.14 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 9 | 0.14 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 9 | 0.14 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 8 | 0.14 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 8 | 0.14 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 8 | 0.14 |
| (1,49) | 1:A:150:LEU:HD11 | 1:A:64:ASP:HA | 11 | 0.14 |
| (1,49) | 1:A:150:LEU:HD12 | 1:A:64:ASP:HA | 11 | 0.14 |
| (1,49) | 1:A:150:LEU:HD13 | 1:A:64:ASP:HA | 11 | 0.14 |
| (1,462) | 1:A:8:SER:HB2 | 1:A:10:ASP:H | 9 | 0.14 |
| (1,462) | 1:A:8:SER:HB3 | 1:A:10:ASP:H | 9 | 0.14 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 17 | 0.14 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 17 | 0.14 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 17 | 0.14 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 20 | 0.14 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 20 | 0.14 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 20 | 0.14 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 11 | 0.14 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 11 | 0.14 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 11 | 0.14 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 11 | 0.14 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 11 | 0.14 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 11 | 0.14 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 11 | 0.14 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 19 | 0.14 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 19 | 0.14 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 19 | 0.14 |
| (1,411) | 1:A:99:MET:HE1 | 1:A:143:PHE:HB2 | 14 | 0.14 |
| (1,411) | 1:A:99:MET:HE1 | 1:A:143:PHE:HB3 | 14 | 0.14 |
| (1,411) | 1:A:99:MET:HE2 | 1:A:143:PHE:HB2 | 14 | 0.14 |
| (1,411) | 1:A:99:MET:HE2 | 1:A:143:PHE:HB3 | 14 | 0.14 |
| (1,411) | 1:A:99:MET:HE3 | 1:A:143:PHE:HB2 | 14 | 0.14 |
| (1,411) | 1:A:99:MET:HE3 | 1:A:143:PHE:HB3 | 14 | 0.14 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD1 | 4 | 0.14 |
| (1,41) | 1:A:33:LEU:HD21 | 1:A:37:TYR:HD2 | 4 | 0.14 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD1 | 4 | 0.14 |
| (1,41) | 1:A:33:LEU:HD22 | 1:A:37:TYR:HD2 | 4 | 0.14 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD1 | 4 | 0.14 |
| (1,41) | 1:A:33:LEU:HD23 | 1:A:37:TYR:HD2 | 4 | 0.14 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 3 | 0.14 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 3 | 0.14 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 9 | 0.14 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,39) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB1 | 8 | 0.14 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB2 | 8 | 0.14 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB3 | 8 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB1 | 8 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB2 | 8 | 0.14 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB3 | 8 | 0.14 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB2 | 5 | 0.14 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB3 | 5 | 0.14 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB2 | 5 | 0.14 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB3 | 5 | 0.14 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB2 | 5 | 0.14 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB3 | 5 | 0.14 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 3 | 0.14 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 3 | 0.14 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 16 | 0.14 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 16 | 0.14 |
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 16 | 0.14 |
| (1,348) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD11 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD12 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG21 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG22 | 9 | 0.14 |
| (1,348) | 1:A:33:LEU:HD13 | 1:A:39:VAL:HG23 | 9 | 0.14 |
| (1,332) | 1:A:150:LEU:HG | 1:A:152:ASN:HB2 | 16 | 0.14 |
| (1,332) | 1:A:150:LEU:HG | 1:A:152:ASN:HB3 | 16 | 0.14 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 8 | 0.14 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 13 | 0.14 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 20 | 0.14 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD1 | 19 | 0.14 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD2 | 19 | 0.14 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD1 | 19 | 0.14 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD2 | 19 | 0.14 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD1 | 19 | 0.14 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD2 | 19 | 0.14 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 20 | 0.14 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 20 | 0.14 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 17 | 0.14 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 17 | 0.14 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 17 | 0.14 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 17 | 0.14 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 17 | 0.14 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 17 | 0.14 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 2 | 0.14 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 2 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 2 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 2 | 0.14 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 9 | 0.14 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 9 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 9 | 0.14 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 9 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD21 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD22 | 14 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD23 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD21 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD22 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD23 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD21 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD22 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD23 | 14 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD21 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD22 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD23 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD21 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD22 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD23 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD21 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD22 | 16 | 0.14 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD23 | 16 | 0.14 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD1 | 1 | 0.14 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD2 | 1 | 0.14 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD1 | 1 | 0.14 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD2 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 1 | 0.14 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 1 | 0.14 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 11 | 0.14 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 11 | 0.14 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 11 | 0.14 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 11 | 0.14 |
| (1,232) | 1:A:92:ASN:HB2 | 1:A:93:LEU:HA | 7 | 0.14 |
| (1,232) | 1:A:92:ASN:HB3 | 1:A:93:LEU:HA | 7 | 0.14 |
| (1,232) | 1:A:92:ASN:HB2 | 1:A:93:LEU:HA | 19 | 0.14 |
| (1,232) | 1:A:92:ASN:HB3 | 1:A:93:LEU:HA | 19 | 0.14 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 8 | 0.14 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 8 | 0.14 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 8 | 0.14 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD2 | 15 | 0.14 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD3 | 15 | 0.14 |
| (1,2258) | 1:A:137:ILE:HA | 1:A:104:THR:H | 17 | 0.14 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 20 | 0.14 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 20 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 20 | 0.14 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 4 | 0.14 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 4 | 0.14 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 4 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 6 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 6 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 6 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 12 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 12 | 0.14 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 12 | 0.14 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 20 | 0.14 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 8 | 0.14 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 8 | 0.14 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 8 | 0.14 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD11 | 19 | 0.14 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD12 | 19 | 0.14 |
| (1,2168) | 1:A:63:CYS:H | 1:A:46:LEU:HD13 | 19 | 0.14 |
| (1,2153) | 1:A:136:GLU:H | 1:A:105:ILE:HA | 7 | 0.14 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 17 | 0.14 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 19 | 0.14 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 15 | 0.14 |
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 15 | 0.14 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 15 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 6 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 10 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 12 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 13 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 17 | 0.14 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 19 | 0.14 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 5 | 0.14 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 9 | 0.14 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 20 | 0.14 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 10 | 0.14 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 10 | 0.14 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 14 | 0.14 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 14 | 0.14 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 14 | 0.14 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 2 | 0.14 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 2 | 0.14 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 4 | 0.14 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 4 | 0.14 |
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD1 | 5 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,201) | 1:A:120:LEU:HG | 1:A:122:PHE:HD2 | 5 | 0.14 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 10 | 0.14 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 10 | 0.14 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 10 | 0.14 |
| (1,1999) | 1:A:149:ILE:HD11 | 1:A:149:ILE:H | 10 | 0.14 |
| (1,1999) | 1:A:149:ILE:HD12 | 1:A:149:ILE:H | 10 | 0.14 |
| (1,1999) | 1:A:149:ILE:HD13 | 1:A:149:ILE:H | 10 | 0.14 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD1 | 20 | 0.14 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD2 | 20 | 0.14 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 17 | 0.14 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 17 | 0.14 |
| (1,1854) | 1:A:146:ASP:H | 1:A:147:GLN:H | 1 | 0.14 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD1 | 2 | 0.14 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD2 | 2 | 0.14 |
| (1,183) | 1:A:135:LEU:HD21 | 1:A:23:TRP:HH2 | 4 | 0.14 |
| (1,183) | 1:A:135:LEU:HD22 | 1:A:23:TRP:HH2 | 4 | 0.14 |
| (1,183) | 1:A:135:LEU:HD23 | 1:A:23:TRP:HH2 | 4 | 0.14 |
| (1,1801) | 1:A:41:LYS:HD2 | 1:A:42:VAL:H | 10 | 0.14 |
| (1,1801) | 1:A:41:LYS:HD3 | 1:A:42:VAL:H | 10 | 0.14 |
| (1,1793) | 1:A:91:GLN:H | 1:A:89:VAL:HG11 | 16 | 0.14 |
| (1,1793) | 1:A:91:GLN:H | 1:A:89:VAL:HG12 | 16 | 0.14 |
| (1,1793) | 1:A:91:GLN:H | 1:A:89:VAL:HG13 | 16 | 0.14 |
| (1,1786) | 1:A:124:GLN:HG2 | 1:A:125:LYS:H | 18 | 0.14 |
| (1,1786) | 1:A:124:GLN:HG3 | 1:A:125:LYS:H | 18 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 10 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 10 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 17 | 0.14 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 17 | 0.14 |
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 8 | 0.14 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 3 | 0.14 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 4 | 0.14 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 2 | 0.14 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 2 | 0.14 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 15 | 0.14 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 15 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 13 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 13 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 17 | 0.14 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 17 | 0.14 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 5 | 0.14 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 15 | 0.14 |
| (1,164) | 1:A:156:ILE:HD11 | 1:A:66:ASN:HA | 10 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,164) | 1:A:156:ILE:HD12 | 1:A:66:ASN:HA | 10 | 0.14 |
| (1,164) | 1:A:156:ILE:HD13 | 1:A:66:ASN:HA | 10 | 0.14 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 19 | 0.14 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 19 | 0.14 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 19 | 0.14 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 19 | 0.14 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 19 | 0.14 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 19 | 0.14 |
| (1,160) | 1:A:156:ILE:HG21 | 1:A:153:ALA:HA | 4 | 0.14 |
| (1,160) | 1:A:156:ILE:HG22 | 1:A:153:ALA:HA | 4 | 0.14 |
| (1,160) | 1:A:156:ILE:HG23 | 1:A:153:ALA:HA | 4 | 0.14 |
| (1,160) | 1:A:156:ILE:HG21 | 1:A:153:ALA:HA | 5 | 0.14 |
| (1,160) | 1:A:156:ILE:HG22 | 1:A:153:ALA:HA | 5 | 0.14 |
| (1,160) | 1:A:156:ILE:HG23 | 1:A:153:ALA:HA | 5 | 0.14 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 13 | 0.14 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 17 | 0.14 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 19 | 0.14 |
| (1,1569) | 1:A:82:GLU:HA | 1:A:87:ARG:H | 9 | 0.14 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 4 | 0.14 |
| (1,154) | 1:A:162:THR:HG21 | 1:A:159:LEU:HA | 5 | 0.14 |
| (1,154) | 1:A:162:THR:HG22 | 1:A:159:LEU:HA | 5 | 0.14 |
| (1,154) | 1:A:162:THR:HG23 | 1:A:159:LEU:HA | 5 | 0.14 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD11 | 7 | 0.14 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD12 | 7 | 0.14 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD13 | 7 | 0.14 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 4 | 0.14 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 4 | 0.14 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 4 | 0.14 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG21 | 4 | 0.14 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG22 | 4 | 0.14 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG23 | 4 | 0.14 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD11 | 15 | 0.14 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD12 | 15 | 0.14 |
| (1,1451) | 1:A:160:TYR:H | 1:A:159:LEU:HD13 | 15 | 0.14 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 7 | 0.14 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 7 | 0.14 |
| (1,1425) | 1:A:171:GLU:HA | 1:A:174:PHE:HB2 | 9 | 0.14 |
| (1,1425) | 1:A:171:GLU:HA | 1:A:174:PHE:HB3 | 9 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 3 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 3 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 3 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 6 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 6 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 6 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 12 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 12 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 12 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG21 | 1:A:171:GLU:HA | 19 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG22 | 1:A:171:GLU:HA | 19 | 0.14 |
| (1,1423) | 1:A:170:ILE:HG23 | 1:A:171:GLU:HA | 19 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 15 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 16 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 16 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 16 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 16 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 16 | 0.14 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 16 | 0.14 |
| (1,1303) | 1:A:155:THR:HB | 1:A:156:ILE:H | 19 | 0.14 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 13 | 0.14 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 13 | 0.14 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 13 | 0.14 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 5 | 0.14 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 5 | 0.14 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 5 | 0.14 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 5 | 0.14 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 5 | 0.14 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 5 | 0.14 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB1 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB2 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB3 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB1 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB2 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB3 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB1 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB2 | 17 | 0.14 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB3 | 17 | 0.14 |
| (1,1248) | 1:A:140:PHE:HA | 1:A:102:SER:H | 8 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 9 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 9 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 9 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 17 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 17 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 17 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 20 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 20 | 0.14 |
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 20 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 5 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 5 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 5 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 14 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 14 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 14 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 19 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 19 | 0.14 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 19 | 0.14 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 3 | 0.14 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 3 | 0.14 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 3 | 0.14 |
| (1,1167) | 1:A:131:GLY:HA2 | 1:A:129:PHE:HE1 | 5 | 0.14 |
| (1,1167) | 1:A:131:GLY:HA2 | 1:A:129:PHE:HE2 | 5 | 0.14 |
| (1,1167) | 1:A:131:GLY:HA3 | 1:A:129:PHE:HE1 | 5 | 0.14 |
| (1,1167) | 1:A:131:GLY:HA3 | 1:A:129:PHE:HE2 | 5 | 0.14 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 2 | 0.14 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 2 | 0.14 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 5 | 0.14 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 6 | 0.14 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 12 | 0.14 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 20 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 3 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 10 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 17 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 17 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 17 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 17 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 17 | 0.14 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 17 | 0.14 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 15 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 13 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 13 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 13 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 14 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 14 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 14 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 16 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 16 | 0.14 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 16 | 0.14 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 10 | 0.14 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD1 | 18 | 0.14 |
| (1,1014) | 1:A:99:MET:HE1 | 1:A:143:PHE:HD2 | 18 | 0.14 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD1 | 18 | 0.14 |
| (1,1014) | 1:A:99:MET:HE2 | 1:A:143:PHE:HD2 | 18 | 0.14 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD1 | 18 | 0.14 |
| (1,1014) | 1:A:99:MET:HE3 | 1:A:143:PHE:HD2 | 18 | 0.14 |
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 11 | 0.14 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 11 | 0.14 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 11 | 0.14 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 14 | 0.13 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 14 | 0.13 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 14 | 0.13 |
| (1,973) | 1:A:94:LEU:HD21 | 1:A:94:LEU:H | 17 | 0.13 |
| (1,973) | 1:A:94:LEU:HD22 | 1:A:94:LEU:H | 17 | 0.13 |
| (1,973) | 1:A:94:LEU:HD23 | 1:A:94:LEU:H | 17 | 0.13 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 1 | 0.13 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 1 | 0.13 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 18 | 0.13 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 18 | 0.13 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 19 | 0.13 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 19 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 20 | 0.13 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 20 | 0.13 |
| (1,862) | 1:A:74:ASN:HB2 | 1:A:138:ASN:HD21 | 5 | 0.13 |
| (1,862) | 1:A:74:ASN:HB3 | 1:A:138:ASN:HD21 | 5 | 0.13 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 9 | 0.13 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD1 | 20 | 0.13 |
| (1,824) | 1:A:70:LEU:HD21 | 1:A:122:PHE:HD2 | 20 | 0.13 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD1 | 20 | 0.13 |
| (1,824) | 1:A:70:LEU:HD22 | 1:A:122:PHE:HD2 | 20 | 0.13 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD1 | 20 | 0.13 |
| (1,824) | 1:A:70:LEU:HD23 | 1:A:122:PHE:HD2 | 20 | 0.13 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 8 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 9 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 17 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 17 | 0.13 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 17 | 0.13 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG2 | 9 | 0.13 |
| (1,8) | 1:A:96:SER:HA | 1:A:147:GLN:HG3 | 9 | 0.13 |
| (1,756) | 1:A:64:ASP:HA | 1:A:23:TRP:HE1 | 5 | 0.13 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 2 | 0.13 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 15 | 0.13 |
| (1,703) | 1:A:55:LEU:HG | 1:A:55:LEU:H | 16 | 0.13 |
| (1,701) | 1:A:55:LEU:HD21 | 1:A:55:LEU:H | 2 | 0.13 |
| (1,701) | 1:A:55:LEU:HD22 | 1:A:55:LEU:H | 2 | 0.13 |
| (1,701) | 1:A:55:LEU:HD23 | 1:A:55:LEU:H | 2 | 0.13 |
| (1,701) | 1:A:55:LEU:HD21 | 1:A:55:LEU:H | 17 | 0.13 |
| (1,701) | 1:A:55:LEU:HD22 | 1:A:55:LEU:H | 17 | 0.13 |
| (1,701) | 1:A:55:LEU:HD23 | 1:A:55:LEU:H | 17 | 0.13 |
| (1,680) | 1:A:48:ILE:HD11 | 1:A:90:THR:HA | 2 | 0.13 |
| (1,680) | 1:A:48:ILE:HD12 | 1:A:90:THR:HA | 2 | 0.13 |
| (1,680) | 1:A:48:ILE:HD13 | 1:A:90:THR:HA | 2 | 0.13 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 11 | 0.13 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 11 | 0.13 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 11 | 0.13 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD1 | 4 | 0.13 |
| (1,631) | 1:A:42:VAL:HG11 | 1:A:143:PHE:HD2 | 4 | 0.13 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD1 | 4 | 0.13 |
| (1,631) | 1:A:42:VAL:HG12 | 1:A:143:PHE:HD2 | 4 | 0.13 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD1 | 4 | 0.13 |
| (1,631) | 1:A:42:VAL:HG13 | 1:A:143:PHE:HD2 | 4 | 0.13 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB2 | 8 | 0.13 |
| (1,629) | 1:A:45:VAL:HG21 | 1:A:94:LEU:HB3 | 8 | 0.13 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB2 | 8 | 0.13 |
| (1,629) | 1:A:45:VAL:HG22 | 1:A:94:LEU:HB3 | 8 | 0.13 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB2 | 8 | 0.13 |
| (1,629) | 1:A:45:VAL:HG23 | 1:A:94:LEU:HB3 | 8 | 0.13 |
| (1,615) | 1:A:41:LYS:HD2 | 1:A:41:LYS:HA | 18 | 0.13 |
| (1,615) | 1:A:41:LYS:HD3 | 1:A:41:LYS:HA | 18 | 0.13 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD2 | 18 | 0.13 |
| (1,614) | 1:A:41:LYS:HA | 1:A:41:LYS:HD3 | 18 | 0.13 |
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD1 | 19 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,583) | 1:A:37:TYR:HA | 1:A:37:TYR:HD2 | 19 | 0.13 |
| (1,573) | 1:A:33:LEU:HD11 | 1:A:33:LEU:H | 15 | 0.13 |
| (1,573) | 1:A:33:LEU:HD12 | 1:A:33:LEU:H | 15 | 0.13 |
| (1,573) | 1:A:33:LEU:HD13 | 1:A:33:LEU:H | 15 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 6 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 12 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 16 | 0.13 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 16 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 16 | 0.13 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 16 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 16 | 0.13 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 16 | 0.13 |
| (1,54) | 1:A:23:TRP:H | 1:A:24:LEU:H | 18 | 0.13 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 15 | 0.13 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 15 | 0.13 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 15 | 0.13 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 16 | 0.13 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 16 | 0.13 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 16 | 0.13 |
| (1,520) | 1:A:24:LEU:HD21 | 1:A:23:TRP:HZ2 | 5 | 0.13 |
| (1,520) | 1:A:24:LEU:HD22 | 1:A:23:TRP:HZ2 | 5 | 0.13 |
| (1,520) | 1:A:24:LEU:HD23 | 1:A:23:TRP:HZ2 | 5 | 0.13 |
| (1,506) | 1:A:23:TRP:HD1 | 1:A:23:TRP:HA | 18 | 0.13 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 2 | 0.13 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 2 | 0.13 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 2 | 0.13 |
| (1,481) | 1:A:14:VAL:HG11 | 1:A:15:THR:H | 13 | 0.13 |
| (1,481) | 1:A:14:VAL:HG12 | 1:A:15:THR:H | 13 | 0.13 |
| (1,481) | 1:A:14:VAL:HG13 | 1:A:15:THR:H | 13 | 0.13 |
| (1,478) | 1:A:12:VAL:HG11 | 1:A:12:VAL:H | 14 | 0.13 |
| (1,478) | 1:A:12:VAL:HG12 | 1:A:12:VAL:H | 14 | 0.13 |
| (1,478) | 1:A:12:VAL:HG13 | 1:A:12:VAL:H | 14 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,462) | 1:A:8:SER:HB2 | 1:A:10:ASP:H | 19 | 0.13 |
| (1,462) | 1:A:8:SER:HB3 | 1:A:10:ASP:H | 19 | 0.13 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 3 | 0.13 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 3 | 0.13 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 3 | 0.13 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 4 | 0.13 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 4 | 0.13 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 4 | 0.13 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 8 | 0.13 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 8 | 0.13 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 8 | 0.13 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 16 | 0.13 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 16 | 0.13 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 16 | 0.13 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 11 | 0.13 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 11 | 0.13 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 11 | 0.13 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 6 | 0.13 |
| (1,449) | 1:A:170:ILE:HG21 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,449) | 1:A:170:ILE:HG22 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,449) | 1:A:170:ILE:HG23 | 1:A:166:ILE:HA | 12 | 0.13 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG21 | 19 | 0.13 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG22 | 19 | 0.13 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG23 | 19 | 0.13 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG21 | 19 | 0.13 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG22 | 19 | 0.13 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG23 | 19 | 0.13 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 5 | 0.13 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 5 | 0.13 |
| (1,388) | 1:A:85:GLU:HA | 1:A:87:ARG:H | 15 | 0.13 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB1 | 20 | 0.13 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB2 | 20 | 0.13 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB3 | 20 | 0.13 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB1 | 20 | 0.13 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB2 | 20 | 0.13 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB3 | 20 | 0.13 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 8 | 0.13 |
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 8 | 0.13 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 8 | 0.13 |
| (1,385) | 1:A:78:ILE:HG21 | 1:A:57:SER:HA | 9 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,385) | 1:A:78:ILE:HG22 | 1:A:57:SER:HA | 9 | 0.13 |
| (1,385) | 1:A:78:ILE:HG23 | 1:A:57:SER:HA | 9 | 0.13 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD11 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD12 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD13 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD11 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD12 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD13 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD11 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD12 | 14 | 0.13 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD13 | 14 | 0.13 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG21 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG22 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD11 | 1:A:27:VAL:HG23 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG21 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG22 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD12 | 1:A:27:VAL:HG23 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG21 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG22 | 9 | 0.13 |
| (1,38) | 1:A:33:LEU:HD13 | 1:A:27:VAL:HG23 | 9 | 0.13 |
| (1,346) | 1:A:31:ALA:HB1 | 1:A:26:PRO:HB2 | 14 | 0.13 |
| (1,346) | 1:A:31:ALA:HB1 | 1:A:26:PRO:HB3 | 14 | 0.13 |
| (1,346) | 1:A:31:ALA:HB2 | 1:A:26:PRO:HB2 | 14 | 0.13 |
| (1,346) | 1:A:31:ALA:HB2 | 1:A:26:PRO:HB3 | 14 | 0.13 |
| (1,346) | 1:A:31:ALA:HB3 | 1:A:26:PRO:HB2 | 14 | 0.13 |
| (1,346) | 1:A:31:ALA:HB3 | 1:A:26:PRO:HB3 | 14 | 0.13 |
| (1,34) | 1:A:39:VAL:HG11 | 1:A:37:TYR:HD1 | 18 | 0.13 |
| (1,34) | 1:A:39:VAL:HG11 | 1:A:37:TYR:HD2 | 18 | 0.13 |
| (1,34) | 1:A:39:VAL:HG12 | 1:A:37:TYR:HD1 | 18 | 0.13 |
| (1,34) | 1:A:39:VAL:HG12 | 1:A:37:TYR:HD2 | 18 | 0.13 |
| (1,34) | 1:A:39:VAL:HG13 | 1:A:37:TYR:HD1 | 18 | 0.13 |
| (1,34) | 1:A:39:VAL:HG13 | 1:A:37:TYR:HD2 | 18 | 0.13 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 2 | 0.13 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 9 | 0.13 |
| (1,313) | 1:A:172:GLN:HG2 | 1:A:170:ILE:HA | 7 | 0.13 |
| (1,313) | 1:A:172:GLN:HG3 | 1:A:170:ILE:HA | 7 | 0.13 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 3 | 0.13 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 3 | 0.13 |
| (1,298) | 1:A:24:LEU:HD11 | 1:A:69:ILE:H | 4 | 0.13 |
| (1,298) | 1:A:24:LEU:HD12 | 1:A:69:ILE:H | 4 | 0.13 |
| (1,298) | 1:A:24:LEU:HD13 | 1:A:69:ILE:H | 4 | 0.13 |
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG2 | 17 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,281) | 1:A:42:VAL:HB | 1:A:20:MET:HG3 | 17 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 4 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 4 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 4 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 9 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 9 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 9 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 19 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 19 | 0.13 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 19 | 0.13 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 1 | 0.13 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 1 | 0.13 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 1 | 0.13 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 9 | 0.13 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 9 | 0.13 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 9 | 0.13 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG21 | 11 | 0.13 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG22 | 11 | 0.13 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG23 | 11 | 0.13 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD21 | 13 | 0.13 |
| (1,251) | 1:A:76:LYS:HG2 | 1:A:74:ASN:HD22 | 13 | 0.13 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD21 | 13 | 0.13 |
| (1,251) | 1:A:76:LYS:HG3 | 1:A:74:ASN:HD22 | 13 | 0.13 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD1 | 20 | 0.13 |
| (1,25) | 1:A:105:ILE:HG12 | 1:A:169:PHE:HD2 | 20 | 0.13 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD1 | 20 | 0.13 |
| (1,25) | 1:A:105:ILE:HG13 | 1:A:169:PHE:HD2 | 20 | 0.13 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 2 | 0.13 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 7 | 0.13 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 7 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 7 | 0.13 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 7 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 7 | 0.13 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 7 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 6 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 6 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 6 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 6 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 10 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 10 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 10 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 10 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB2 | 12 | 0.13 |
| (1,235) | 1:A:9:ARG:HD2 | 1:A:8:SER:HB3 | 12 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB2 | 12 | 0.13 |
| (1,235) | 1:A:9:ARG:HD3 | 1:A:8:SER:HB3 | 12 | 0.13 |
| (1,232) | 1:A:92:ASN:HB2 | 1:A:93:LEU:HA | 2 | 0.13 |
| (1,232) | 1:A:92:ASN:HB3 | 1:A:93:LEU:HA | 2 | 0.13 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD2 | 10 | 0.13 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD3 | 10 | 0.13 |
| (1,2258) | 1:A:137:ILE:HA | 1:A:104:THR:H | 2 | 0.13 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG21 | 1 | 0.13 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG22 | 1 | 0.13 |
| (1,2197) | 1:A:141:SER:H | 1:A:100:ILE:HG23 | 1 | 0.13 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 16 | 0.13 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 16 | 0.13 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 16 | 0.13 |
| (1,2170) | 1:A:63:CYS:H | 1:A:44:LYS:H | 5 | 0.13 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 14 | 0.13 |
| (1,2141) | 1:A:65:ALA:HB1 | 1:A:67:TYR:H | 5 | 0.13 |
| (1,2141) | 1:A:65:ALA:HB2 | 1:A:67:TYR:H | 5 | 0.13 |
| (1,2141) | 1:A:65:ALA:HB3 | 1:A:67:TYR:H | 5 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 4 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 4 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 4 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 16 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 16 | 0.13 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 16 | 0.13 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 3 | 0.13 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 7 | 0.13 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 9 | 0.13 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 20 | 0.13 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 6 | 0.13 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 12 | 0.13 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 20 | 0.13 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 20 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 6 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 6 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 12 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 12 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 19 | 0.13 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 19 | 0.13 |
| (1,2045) | 1:A:73:ALA:H | 1:A:137:ILE:HB | 16 | 0.13 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 20 | 0.13 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 20 | 0.13 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 20 | 0.13 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 10 | 0.13 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 10 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 1 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 3 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 7 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 13 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 14 | 0.13 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 15 | 0.13 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE1 | 9 | 0.13 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE2 | 9 | 0.13 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 5 | 0.13 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 5 | 0.13 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 5 | 0.13 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 18 | 0.13 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 18 | 0.13 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 18 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 3 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 3 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 3 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 18 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 18 | 0.13 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 18 | 0.13 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD11 | 18 | 0.13 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD12 | 18 | 0.13 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD13 | 18 | 0.13 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD1 | 14 | 0.13 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD2 | 14 | 0.13 |
| (1,1820) | 1:A:175:SER:H | 1:A:174:PHE:H | 8 | 0.13 |
| (1,1790) | 1:A:91:GLN:HG2 | 1:A:91:GLN:H | 17 | 0.13 |
| (1,1790) | 1:A:91:GLN:HG3 | 1:A:91:GLN:H | 17 | 0.13 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 8 | 0.13 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 8 | 0.13 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 6 | 0.13 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 12 | 0.13 |
| (1,174) | 1:A:149:ILE:HG12 | 1:A:95:ASN:HD22 | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,174) | 1:A:149:ILE:HG13 | 1:A:95:ASN:HD22 | 8 | 0.13 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 10 | 0.13 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 10 | 0.13 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 10 | 0.13 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 8 | 0.13 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 9 | 0.13 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 1 | 0.13 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 1 | 0.13 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 9 | 0.13 |
| (1,160) | 1:A:156:ILE:HG21 | 1:A:153:ALA:HA | 11 | 0.13 |
| (1,160) | 1:A:156:ILE:HG22 | 1:A:153:ALA:HA | 11 | 0.13 |
| (1,160) | 1:A:156:ILE:HG23 | 1:A:153:ALA:HA | 11 | 0.13 |
| (1,160) | 1:A:156:ILE:HG21 | 1:A:153:ALA:HA | 16 | 0.13 |
| (1,160) | 1:A:156:ILE:HG22 | 1:A:153:ALA:HA | 16 | 0.13 |
| (1,160) | 1:A:156:ILE:HG23 | 1:A:153:ALA:HA | 16 | 0.13 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 6 | 0.13 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 12 | 0.13 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 4 | 0.13 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 5 | 0.13 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 8 | 0.13 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 15 | 0.13 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 19 | 0.13 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 13 | 0.13 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 14 | 0.13 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 15 | 0.13 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 20 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 2 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 3 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 5 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 17 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 18 | 0.13 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 19 | 0.13 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB2 | 13 | 0.13 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB3 | 13 | 0.13 |
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB2 | 13 | 0.13 |
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB3 | 13 | 0.13 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB2 | 13 | 0.13 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB3 | 13 | 0.13 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 14 | 0.13 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 9 | 0.13 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 9 | 0.13 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 9 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,150) | 1:A:166:ILE:HG21 | 1:A:170:ILE:H | 17 | 0.13 |
| (1,150) | 1:A:166:ILE:HG22 | 1:A:170:ILE:H | 17 | 0.13 |
| (1,150) | 1:A:166:ILE:HG23 | 1:A:170:ILE:H | 17 | 0.13 |
| (1,1442) | 1:A:175:SER:HB2 | 1:A:175:SER:H | 7 | 0.13 |
| (1,1442) | 1:A:175:SER:HB3 | 1:A:175:SER:H | 7 | 0.13 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 14 | 0.13 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 14 | 0.13 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 14 | 0.13 |
| (1,1348) | 1:A:159:LEU:HD21 | 1:A:159:LEU:H | 15 | 0.13 |
| (1,1348) | 1:A:159:LEU:HD22 | 1:A:159:LEU:H | 15 | 0.13 |
| (1,1348) | 1:A:159:LEU:HD23 | 1:A:159:LEU:H | 15 | 0.13 |
| (1,1342) | 1:A:159:LEU:HA | 1:A:159:LEU:HD21 | 11 | 0.13 |
| (1,1342) | 1:A:159:LEU:HA | 1:A:159:LEU:HD22 | 11 | 0.13 |
| (1,1342) | 1:A:159:LEU:HA | 1:A:159:LEU:HD23 | 11 | 0.13 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 5 | 0.13 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 5 | 0.13 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 5 | 0.13 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 13 | 0.13 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 13 | 0.13 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 13 | 0.13 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 13 | 0.13 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 13 | 0.13 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 13 | 0.13 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB1 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB2 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB3 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB1 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB2 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB3 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB1 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB2 | 18 | 0.13 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB3 | 18 | 0.13 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 11 | 0.13 |
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 11 | 0.13 |
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 11 | 0.13 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 13 | 0.13 |
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 13 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 13 | 0.13 |
| (1,1248) | 1:A:140:PHE:HA | 1:A:102:SER:H | 6 | 0.13 |
| (1,1248) | 1:A:140:PHE:HA | 1:A:102:SER:H | 12 | 0.13 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 16 | 0.13 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 16 | 0.13 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 16 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 4 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 4 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 4 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 18 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 18 | 0.13 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 18 | 0.13 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 2 | 0.13 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 2 | 0.13 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 2 | 0.13 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD21 | 18 | 0.13 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD22 | 18 | 0.13 |
| (1,1157) | 1:A:128:LEU:HA | 1:A:128:LEU:HD23 | 18 | 0.13 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 15 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 1 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 1 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 1 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 1 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 1 | 0.13 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 1 | 0.13 |
| (1,1107) | 1:A:113:VAL:HG21 | 1:A:114:GLN:HE22 | 1 | 0.13 |
| (1,1107) | 1:A:113:VAL:HG22 | 1:A:114:GLN:HE22 | 1 | 0.13 |
| (1,1107) | 1:A:113:VAL:HG23 | 1:A:114:GLN:HE22 | 1 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 5 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 7 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 11 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 13 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 17 | 0.13 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 18 | 0.13 |
| (1,1077) | 1:A:107:PHE:HA | 1:A:134:VAL:H | 2 | 0.13 |
| (1,1029) | 1:A:100:ILE:HD11 | 1:A:23:TRP:HZ2 | 19 | 0.13 |
| (1,1029) | 1:A:100:ILE:HD12 | 1:A:23:TRP:HZ2 | 19 | 0.13 |
| (1,1029) | 1:A:100:ILE:HD13 | 1:A:23:TRP:HZ2 | 19 | 0.13 |
| (1,974) | 1:A:45:VAL:HG21 | 1:A:95:ASN:H | 11 | 0.12 |
| (1,974) | 1:A:45:VAL:HG22 | 1:A:95:ASN:H | 11 | 0.12 |
| (1,974) | 1:A:45:VAL:HG23 | 1:A:95:ASN:H | 11 | 0.12 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 8 | 0.12 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 8 | 0.12 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 10 | 0.12 |
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 10 | 0.12 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 10 | 0.12 |
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD2 | 5 | 0.12 |
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD3 | 5 | 0.12 |
| (1,886) | 1:A:77:ALA:HB1 | 1:A:138:ASN:HA | 5 | 0.12 |
| (1,886) | 1:A:77:ALA:HB2 | 1:A:138:ASN:HA | 5 | 0.12 |
| (1,886) | 1:A:77:ALA:HB3 | 1:A:138:ASN:HA | 5 | 0.12 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 11 | 0.12 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 11 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD11 | 16 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD12 | 16 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD13 | 16 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD11 | 17 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD12 | 17 | 0.12 |
| (1,856) | 1:A:74:ASN:HA | 1:A:78:ILE:HD13 | 17 | 0.12 |
| (1,854) | 1:A:73:ALA:HB1 | 1:A:140:PHE:HZ | 8 | 0.12 |
| (1,854) | 1:A:73:ALA:HB2 | 1:A:140:PHE:HZ | 8 | 0.12 |
| (1,854) | 1:A:73:ALA:HB3 | 1:A:140:PHE:HZ | 8 | 0.12 |
| (1,854) | 1:A:73:ALA:HB1 | 1:A:140:PHE:HZ | 13 | 0.12 |
| (1,854) | 1:A:73:ALA:HB2 | 1:A:140:PHE:HZ | 13 | 0.12 |
| (1,854) | 1:A:73:ALA:HB3 | 1:A:140:PHE:HZ | 13 | 0.12 |
| (1,822) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HA | 6 | 0.12 |
| (1,822) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HA | 6 | 0.12 |
| (1,822) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HA | 6 | 0.12 |
| (1,822) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HA | 12 | 0.12 |
| (1,822) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HA | 12 | 0.12 |
| (1,822) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HA | 12 | 0.12 |
| (1,822) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HA | 18 | 0.12 |
| (1,822) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HA | 18 | 0.12 |
| (1,822) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HA | 18 | 0.12 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 8 | 0.12 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 8 | 0.12 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 8 | 0.12 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|------------------|----------|---------------|
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 4 | 0.12 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 4 | 0.12 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD21 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD22 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD11 | 1:A:24:LEU:HD23 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD21 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD22 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD12 | 1:A:24:LEU:HD23 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD21 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD22 | 5 | 0.12 |
| (1,794) | 1:A:69:ILE:HD13 | 1:A:24:LEU:HD23 | 5 | 0.12 |
| (1,756) | 1:A:64:ASP:HA | 1:A:23:TRP:HE1 | 4 | 0.12 |
| (1,748) | 1:A:62:LEU:HD11 | 1:A:45:VAL:HA | 13 | 0.12 |
| (1,748) | 1:A:62:LEU:HD12 | 1:A:45:VAL:HA | 13 | 0.12 |
| (1,748) | 1:A:62:LEU:HD13 | 1:A:45:VAL:HA | 13 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 11 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 15 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 16 | 0.12 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 16 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 16 | 0.12 |
| (1,717) | 1:A:48:ILE:HA | 1:A:60:LEU:HA | 17 | 0.12 |
| (1,704) | 1:A:55:LEU:HG | 1:A:55:LEU:HA | 10 | 0.12 |
| (1,680) | 1:A:48:ILE:HD11 | 1:A:90:THR:HA | 16 | 0.12 |
| (1,680) | 1:A:48:ILE:HD12 | 1:A:90:THR:HA | 16 | 0.12 |
| (1,680) | 1:A:48:ILE:HD13 | 1:A:90:THR:HA | 16 | 0.12 |
| (1,644) | 1:A:24:LEU:HD21 | 1:A:43:LEU:HD11 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD21 | 1:A:43:LEU:HD12 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD21 | 1:A:43:LEU:HD13 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD22 | 1:A:43:LEU:HD11 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD22 | 1:A:43:LEU:HD12 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD22 | 1:A:43:LEU:HD13 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD23 | 1:A:43:LEU:HD11 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD23 | 1:A:43:LEU:HD12 | 18 | 0.12 |
| (1,644) | 1:A:24:LEU:HD23 | 1:A:43:LEU:HD13 | 18 | 0.12 |
| (1,601) | 1:A:39:VAL:HG11 | 1:A:39:VAL:H | 9 | 0.12 |
| (1,601) | 1:A:39:VAL:HG12 | 1:A:39:VAL:H | 9 | 0.12 |
| (1,601) | 1:A:39:VAL:HG13 | 1:A:39:VAL:H | 9 | 0.12 |
| (1,587) | 1:A:38:LYS:HA | 1:A:102:SER:HA | 11 | 0.12 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD1 | 16 | 0.12 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD2 | 16 | 0.12 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD1 | 16 | 0.12 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD2 | 16 | 0.12 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD1 | 16 | 0.12 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD2 | 16 | 0.12 |
| (1,575) | 1:A:33:LEU:HG | 1:A:33:LEU:H | 11 | 0.12 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 8 | 0.12 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 8 | 0.12 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 8 | 0.12 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 19 | 0.12 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 19 | 0.12 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 19 | 0.12 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 4 | 0.12 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 4 | 0.12 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 4 | 0.12 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 4 | 0.12 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 4 | 0.12 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 4 | 0.12 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 7 | 0.12 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 7 | 0.12 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 7 | 0.12 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 14 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 14 | 0.12 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 14 | 0.12 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 20 | 0.12 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 20 | 0.12 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 20 | 0.12 |
| (1,50) | 1:A:150:LEU:HD21 | 1:A:64:ASP:HA | 16 | 0.12 |
| (1,50) | 1:A:150:LEU:HD22 | 1:A:64:ASP:HA | 16 | 0.12 |
| (1,50) | 1:A:150:LEU:HD23 | 1:A:64:ASP:HA | 16 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG21 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG22 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG23 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG21 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG22 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG23 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG21 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG22 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG23 | 6 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG21 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG22 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG23 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG21 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG22 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG23 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG21 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG22 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG23 | 12 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG21 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG22 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE1 | 1:A:42:VAL:HG23 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG21 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG22 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE2 | 1:A:42:VAL:HG23 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG21 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG22 | 14 | 0.12 |
| (1,498) | 1:A:20:MET:HE3 | 1:A:42:VAL:HG23 | 14 | 0.12 |
| (1,495) | 1:A:20:MET:HE1 | 1:A:20:MET:HA | 7 | 0.12 |
| (1,495) | 1:A:20:MET:HE2 | 1:A:20:MET:HA | 7 | 0.12 |
| (1,495) | 1:A:20:MET:HE3 | 1:A:20:MET:HA | 7 | 0.12 |
| (1,46) | 1:A:33:LEU:HD11 | 1:A:103:PHE:HZ | 20 | 0.12 |
| (1,46) | 1:A:33:LEU:HD12 | 1:A:103:PHE:HZ | 20 | 0.12 |
| (1,46) | 1:A:33:LEU:HD13 | 1:A:103:PHE:HZ | 20 | 0.12 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 6 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 6 | 0.12 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 6 | 0.12 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 12 | 0.12 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 12 | 0.12 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 12 | 0.12 |
| (1,452) | 1:A:73:ALA:HB1 | 1:A:57:SER:HA | 13 | 0.12 |
| (1,452) | 1:A:73:ALA:HB2 | 1:A:57:SER:HA | 13 | 0.12 |
| (1,452) | 1:A:73:ALA:HB3 | 1:A:57:SER:HA | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 5 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 10 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 13 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 14 | 0.12 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 14 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 14 | 0.12 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 14 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 14 | 0.12 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 14 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD1 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD2 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD1 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD2 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD1 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD2 | 7 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD1 | 17 | 0.12 |
| (1,424) | 1:A:137:ILE:HD11 | 1:A:140:PHE:HD2 | 17 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD1 | 17 | 0.12 |
| (1,424) | 1:A:137:ILE:HD12 | 1:A:140:PHE:HD2 | 17 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD1 | 17 | 0.12 |
| (1,424) | 1:A:137:ILE:HD13 | 1:A:140:PHE:HD2 | 17 | 0.12 |
| (1,412) | 1:A:137:ILE:HD11 | 1:A:71:ALA:H | 18 | 0.12 |
| (1,412) | 1:A:137:ILE:HD12 | 1:A:71:ALA:H | 18 | 0.12 |
| (1,412) | 1:A:137:ILE:HD13 | 1:A:71:ALA:H | 18 | 0.12 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB2 | 19 | 0.12 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB3 | 19 | 0.12 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB2 | 19 | 0.12 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB3 | 19 | 0.12 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB2 | 19 | 0.12 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB3 | 19 | 0.12 |
| (1,341) | 1:A:20:MET:HE1 | 1:A:66:ASN:H | 8 | 0.12 |
| (1,341) | 1:A:20:MET:HE2 | 1:A:66:ASN:H | 8 | 0.12 |
| (1,341) | 1:A:20:MET:HE3 | 1:A:66:ASN:H | 8 | 0.12 |
| (1,334) | 1:A:26:PRO:HB2 | 1:A:31:ALA:H | 7 | 0.12 |
| (1,334) | 1:A:26:PRO:HB3 | 1:A:31:ALA:H | 7 | 0.12 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD1 | 18 | 0.12 |
| (1,33) | 1:A:27:VAL:HG21 | 1:A:37:TYR:HD2 | 18 | 0.12 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD1 | 18 | 0.12 |
| (1,33) | 1:A:27:VAL:HG22 | 1:A:37:TYR:HD2 | 18 | 0.12 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD1 | 18 | 0.12 |
| (1,33) | 1:A:27:VAL:HG23 | 1:A:37:TYR:HD2 | 18 | 0.12 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 16 | 0.12 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD1 | 20 | 0.12 |
| (1,32) | 1:A:31:ALA:HB1 | 1:A:37:TYR:HD2 | 20 | 0.12 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD1 | 20 | 0.12 |
| (1,32) | 1:A:31:ALA:HB2 | 1:A:37:TYR:HD2 | 20 | 0.12 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD1 | 20 | 0.12 |
| (1,32) | 1:A:31:ALA:HB3 | 1:A:37:TYR:HD2 | 20 | 0.12 |
| (1,306) | 1:A:108:TYR:HE1 | 1:A:112:GLN:HA | 8 | 0.12 |
| (1,306) | 1:A:108:TYR:HE2 | 1:A:112:GLN:HA | 8 | 0.12 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB2 | 9 | 0.12 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB3 | 9 | 0.12 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB2 | 9 | 0.12 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB3 | 9 | 0.12 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 19 | 0.12 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 19 | 0.12 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 19 | 0.12 |
| (1,296) | 1:A:27:VAL:HG21 | 1:A:28:LEU:H | 3 | 0.12 |
| (1,296) | 1:A:27:VAL:HG22 | 1:A:28:LEU:H | 3 | 0.12 |
| (1,296) | 1:A:27:VAL:HG23 | 1:A:28:LEU:H | 3 | 0.12 |
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB2 | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,283) | 1:A:42:VAL:HG21 | 1:A:144:ASN:HB3 | 2 | 0.12 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB2 | 2 | 0.12 |
| (1,283) | 1:A:42:VAL:HG22 | 1:A:144:ASN:HB3 | 2 | 0.12 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB2 | 2 | 0.12 |
| (1,283) | 1:A:42:VAL:HG23 | 1:A:144:ASN:HB3 | 2 | 0.12 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 11 | 0.12 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 11 | 0.12 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 11 | 0.12 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 8 | 0.12 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 8 | 0.12 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 8 | 0.12 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 20 | 0.12 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 20 | 0.12 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 20 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG21 | 16 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG22 | 16 | 0.12 |
| (1,259) | 1:A:69:ILE:HB | 1:A:134:VAL:HG23 | 16 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 4 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 9 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD21 | 19 | 0.12 |
| (1,249) | 1:A:77:ALA:HB1 | 1:A:74:ASN:HD22 | 19 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD21 | 19 | 0.12 |
| (1,249) | 1:A:77:ALA:HB2 | 1:A:74:ASN:HD22 | 19 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD21 | 19 | 0.12 |
| (1,249) | 1:A:77:ALA:HB3 | 1:A:74:ASN:HD22 | 19 | 0.12 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 13 | 0.12 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 13 | 0.12 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 13 | 0.12 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD2 | 1 | 0.12 |
| (1,2262) | 1:A:89:VAL:H | 1:A:88:ARG:HD3 | 1 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 1 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 1 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 1 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 7 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 7 | 0.12 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 7 | 0.12 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD11 | 17 | 0.12 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD12 | 17 | 0.12 |
| (1,2244) | 1:A:23:TRP:HE1 | 1:A:100:ILE:HD13 | 17 | 0.12 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB1 | 14 | 0.12 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB2 | 14 | 0.12 |
| (1,2192) | 1:A:82:GLU:H | 1:A:79:ALA:HB3 | 14 | 0.12 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 8 | 0.12 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 16 | 0.12 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG21 | 3 | 0.12 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG22 | 3 | 0.12 |
| (1,2182) | 1:A:158:PHE:H | 1:A:156:ILE:HG23 | 3 | 0.12 |
| (1,2180) | 1:A:140:PHE:HD1 | 1:A:142:MET:H | 5 | 0.12 |
| (1,2180) | 1:A:140:PHE:HD2 | 1:A:142:MET:H | 5 | 0.12 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 15 | 0.12 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 18 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB1 | 1:A:67:TYR:H | 14 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB2 | 1:A:67:TYR:H | 14 | 0.12 |
| (1,2141) | 1:A:65:ALA:HB3 | 1:A:67:TYR:H | 14 | 0.12 |
| (1,2120) | 1:A:37:TYR:H | 1:A:37:TYR:HD1 | 18 | 0.12 |
| (1,2120) | 1:A:37:TYR:H | 1:A:37:TYR:HD2 | 18 | 0.12 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 4 | 0.12 |
| (1,2116) | 1:A:72:PHE:H | 1:A:73:ALA:HA | 14 | 0.12 |
| (1,2110) | 1:A:135:LEU:H | 1:A:72:PHE:H | 17 | 0.12 |
| (1,2096) | 1:A:109:ASN:H | 1:A:112:GLN:HA | 14 | 0.12 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 14 | 0.12 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 14 | 0.12 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG21 | 20 | 0.12 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG22 | 20 | 0.12 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG23 | 20 | 0.12 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 14 | 0.12 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 14 | 0.12 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 5 | 0.12 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 5 | 0.12 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 5 | 0.12 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 14 | 0.12 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 14 | 0.12 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 4 | 0.12 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 16 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 1 | 0.12 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 1 | 0.12 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 1 | 0.12 |
| (1,198) | 1:A:124:GLN:HG2 | 1:A:131:GLY:H | 11 | 0.12 |
| (1,198) | 1:A:124:GLN:HG3 | 1:A:131:GLY:H | 11 | 0.12 |
| (1,192) | 1:A:129:PHE:HB2 | 1:A:128:LEU:HB2 | 10 | 0.12 |
| (1,192) | 1:A:129:PHE:HB2 | 1:A:128:LEU:HB3 | 10 | 0.12 |
| (1,192) | 1:A:129:PHE:HB3 | 1:A:128:LEU:HB2 | 10 | 0.12 |
| (1,192) | 1:A:129:PHE:HB3 | 1:A:128:LEU:HB3 | 10 | 0.12 |
| (1,1918) | 1:A:13:ARG:H | 1:A:12:VAL:HB | 6 | 0.12 |
| (1,1918) | 1:A:13:ARG:H | 1:A:12:VAL:HB | 12 | 0.12 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 20 | 0.12 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 20 | 0.12 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 8 | 0.12 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 8 | 0.12 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 8 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD11 | 1 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD12 | 1 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD13 | 1 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD11 | 5 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD12 | 5 | 0.12 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD13 | 5 | 0.12 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD1 | 16 | 0.12 |
| (1,1845) | 1:A:81:PHE:H | 1:A:81:PHE:HD2 | 16 | 0.12 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD11 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD12 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD11 | 1:A:133:LEU:HD13 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD11 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD12 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD12 | 1:A:133:LEU:HD13 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD11 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD12 | 4 | 0.12 |
| (1,18) | 1:A:28:LEU:HD13 | 1:A:133:LEU:HD13 | 4 | 0.12 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD1 | 16 | 0.12 |
| (1,1773) | 1:A:49:TYR:H | 1:A:49:TYR:HD2 | 16 | 0.12 |
| (1,1765) | 1:A:11:ALA:H | 1:A:10:ASP:H | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1761) | 1:A:55:LEU:H | 1:A:56:SER:HA | 2 | 0.12 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 9 | 0.12 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 13 | 0.12 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB2 | 1 | 0.12 |
| (1,1748) | 1:A:55:LEU:H | 1:A:56:SER:HB3 | 1 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 17 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 17 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 17 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 18 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 18 | 0.12 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 18 | 0.12 |
| (1,1726) | 1:A:166:ILE:HA | 1:A:171:GLU:H | 9 | 0.12 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 1 | 0.12 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 10 | 0.12 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 6 | 0.12 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 6 | 0.12 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD1 | 12 | 0.12 |
| (1,1690) | 1:A:116:PHE:H | 1:A:108:TYR:HD2 | 12 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 7 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 7 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 7 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 14 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 14 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 14 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 19 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 19 | 0.12 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 19 | 0.12 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 4 | 0.12 |
| (1,1681) | 1:A:170:ILE:H | 1:A:167:ALA:HA | 10 | 0.12 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG2 | 19 | 0.12 |
| (1,1640) | 1:A:86:ARG:H | 1:A:86:ARG:HG3 | 19 | 0.12 |
| (1,1633) | 1:A:156:ILE:HB | 1:A:155:THR:H | 5 | 0.12 |
| (1,1633) | 1:A:156:ILE:HB | 1:A:155:THR:H | 13 | 0.12 |
| (1,1633) | 1:A:156:ILE:HB | 1:A:155:THR:H | 14 | 0.12 |
| (1,1601) | 1:A:102:SER:H | 1:A:137:ILE:HG21 | 5 | 0.12 |
| (1,1601) | 1:A:102:SER:H | 1:A:137:ILE:HG22 | 5 | 0.12 |
| (1,1601) | 1:A:102:SER:H | 1:A:137:ILE:HG23 | 5 | 0.12 |
| (1,1596) | 1:A:102:SER:H | 1:A:101:HIS:HD2 | 10 | 0.12 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 5 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 3 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 7 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 10 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 13 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 16 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 17 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 18 | 0.12 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 20 | 0.12 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 1 | 0.12 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 7 | 0.12 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 8 | 0.12 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 4 | 0.12 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 9 | 0.12 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 10 | 0.12 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 14 | 0.12 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 6 | 0.12 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 12 | 0.12 |
| (1,151) | 1:A:166:ILE:HD11 | 1:A:161:GLY:H | 13 | 0.12 |
| (1,151) | 1:A:166:ILE:HD12 | 1:A:161:GLY:H | 13 | 0.12 |
| (1,151) | 1:A:166:ILE:HD13 | 1:A:161:GLY:H | 13 | 0.12 |
| (1,1486) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HA | 11 | 0.12 |
| (1,1482) | 1:A:121:LYS:HE2 | 1:A:114:GLN:HE22 | 3 | 0.12 |
| (1,1482) | 1:A:121:LYS:HE3 | 1:A:114:GLN:HE22 | 3 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE1 | 6 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE2 | 6 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE1 | 12 | 0.12 |
| (1,1481) | 1:A:124:GLN:HE22 | 1:A:129:PHE:HE2 | 12 | 0.12 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 4 | 0.12 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 4 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB2 | 5 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD11 | 1:A:169:PHE:HB3 | 5 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB2 | 5 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD12 | 1:A:169:PHE:HB3 | 5 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB2 | 5 | 0.12 |
| (1,1414) | 1:A:170:ILE:HD13 | 1:A:169:PHE:HB3 | 5 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 3 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 3 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 3 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 6 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 6 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 6 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 12 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 12 | 0.12 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 12 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1310) | 1:A:156:ILE:HB | 1:A:157:GLU:H | 6 | 0.12 |
| (1,1310) | 1:A:156:ILE:HB | 1:A:157:GLU:H | 12 | 0.12 |
| (1,1310) | 1:A:156:ILE:HB | 1:A:157:GLU:H | 16 | 0.12 |
| (1,13) | 1:A:142:MET:HE1 | 1:A:94:LEU:HG | 16 | 0.12 |
| (1,13) | 1:A:142:MET:HE2 | 1:A:94:LEU:HG | 16 | 0.12 |
| (1,13) | 1:A:142:MET:HE3 | 1:A:94:LEU:HG | 16 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 10 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 19 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 19 | 0.12 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 19 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 19 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 19 | 0.12 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 19 | 0.12 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB1 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB2 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG21 | 1:A:77:ALA:HB3 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB1 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB2 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG22 | 1:A:77:ALA:HB3 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB1 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB2 | 2 | 0.12 |
| (1,129) | 1:A:137:ILE:HG23 | 1:A:77:ALA:HB3 | 2 | 0.12 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 11 | 0.12 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 11 | 0.12 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 11 | 0.12 |
| (1,1248) | 1:A:140:PHE:HA | 1:A:102:SER:H | 20 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 3 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 3 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 3 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 13 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 13 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 13 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 20 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 20 | 0.12 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 20 | 0.12 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 2 | 0.12 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 2 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 3 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 3 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 3 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 10 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 10 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 10 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD11 | 1:A:135:LEU:H | 16 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD12 | 1:A:135:LEU:H | 16 | 0.12 |
| (1,1203) | 1:A:135:LEU:HD13 | 1:A:135:LEU:H | 16 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD11 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD12 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD13 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD11 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD12 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD13 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD11 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD12 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD13 | 6 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD11 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD12 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD13 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD11 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD12 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD13 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD11 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD12 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD13 | 12 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD11 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD12 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE1 | 1:A:94:LEU:HD13 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD11 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD12 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE2 | 1:A:94:LEU:HD13 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD11 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD12 | 14 | 0.12 |
| (1,12) | 1:A:142:MET:HE3 | 1:A:94:LEU:HD13 | 14 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 6 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 6 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 6 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 12 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 12 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 12 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 17 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 17 | 0.12 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 17 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 6 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 6 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 6 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 12 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 12 | 0.12 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 12 | 0.12 |
| (1,1159) | 1:A:109:ASN:HB2 | 1:A:130:PRO:HA | 6 | 0.12 |
| (1,1159) | 1:A:109:ASN:HB3 | 1:A:130:PRO:HA | 6 | 0.12 |
| (1,1159) | 1:A:109:ASN:HB2 | 1:A:130:PRO:HA | 12 | 0.12 |
| (1,1159) | 1:A:109:ASN:HB3 | 1:A:130:PRO:HA | 12 | 0.12 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 6 | 0.12 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 6 | 0.12 |
| (1,1152) | 1:A:125:LYS:HB2 | 1:A:125:LYS:H | 12 | 0.12 |
| (1,1152) | 1:A:125:LYS:HB3 | 1:A:125:LYS:H | 12 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 13 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 13 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 13 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 13 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 13 | 0.12 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 7 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG21 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG22 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD21 | 1:A:113:VAL:HG23 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG21 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG22 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD22 | 1:A:113:VAL:HG23 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG21 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG22 | 13 | 0.12 |
| (1,1104) | 1:A:70:LEU:HD23 | 1:A:113:VAL:HG23 | 13 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 1 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 2 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 3 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 4 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 8 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 9 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 10 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 14 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 16 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 19 | 0.12 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 20 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD1 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD2 | 17 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD1 | 19 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD11 | 1:A:103:PHE:HD2 | 19 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD1 | 19 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD12 | 1:A:103:PHE:HD2 | 19 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD1 | 19 | 0.12 |
| (1,1030) | 1:A:100:ILE:HD13 | 1:A:103:PHE:HD2 | 19 | 0.12 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 9 | 0.12 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 9 | 0.12 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 9 | 0.12 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 9 | 0.12 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 9 | 0.12 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 14 | 0.12 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 14 | 0.12 |
| (1,1016) | 1:A:99:MET:HE1 | 1:A:143:PHE:HZ | 3 | 0.12 |
| (1,1016) | 1:A:99:MET:HE2 | 1:A:143:PHE:HZ | 3 | 0.12 |
| (1,1016) | 1:A:99:MET:HE3 | 1:A:143:PHE:HZ | 3 | 0.12 |
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 3 | 0.12 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 3 | 0.12 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 3 | 0.12 |
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 4 | 0.12 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 4 | 0.12 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 4 | 0.12 |
| (1,1012) | 1:A:99:MET:HE1 | 1:A:99:MET:HA | 8 | 0.12 |
| (1,1012) | 1:A:99:MET:HE2 | 1:A:99:MET:HA | 8 | 0.12 |
| (1,1012) | 1:A:99:MET:HE3 | 1:A:99:MET:HA | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,996) | 1:A:98:ILE:HD11 | 1:A:140:PHE:HE1 | 2 | 0.11 |
| (1,996) | 1:A:98:ILE:HD11 | 1:A:140:PHE:HE2 | 2 | 0.11 |
| (1,996) | 1:A:98:ILE:HD12 | 1:A:140:PHE:HE1 | 2 | 0.11 |
| (1,996) | 1:A:98:ILE:HD12 | 1:A:140:PHE:HE2 | 2 | 0.11 |
| (1,996) | 1:A:98:ILE:HD13 | 1:A:140:PHE:HE1 | 2 | 0.11 |
| (1,996) | 1:A:98:ILE:HD13 | 1:A:140:PHE:HE2 | 2 | 0.11 |
| (1,974) | 1:A:45:VAL:HG21 | 1:A:95:ASN:H | 7 | 0.11 |
| (1,974) | 1:A:45:VAL:HG22 | 1:A:95:ASN:H | 7 | 0.11 |
| (1,974) | 1:A:45:VAL:HG23 | 1:A:95:ASN:H | 7 | 0.11 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 5 | 0.11 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 5 | 0.11 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 5 | 0.11 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 6 | 0.11 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 6 | 0.11 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 6 | 0.11 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 12 | 0.11 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 12 | 0.11 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 12 | 0.11 |
| (1,954) | 1:A:48:ILE:HD11 | 1:A:90:THR:HB | 14 | 0.11 |
| (1,954) | 1:A:48:ILE:HD12 | 1:A:90:THR:HB | 14 | 0.11 |
| (1,954) | 1:A:48:ILE:HD13 | 1:A:90:THR:HB | 14 | 0.11 |
| (1,951) | 1:A:89:VAL:HG21 | 1:A:140:PHE:HZ | 15 | 0.11 |
| (1,951) | 1:A:89:VAL:HG22 | 1:A:140:PHE:HZ | 15 | 0.11 |
| (1,951) | 1:A:89:VAL:HG23 | 1:A:140:PHE:HZ | 15 | 0.11 |
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD2 | 9 | 0.11 |
| (1,922) | 1:A:83:ARG:HA | 1:A:83:ARG:HD3 | 9 | 0.11 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD2 | 17 | 0.11 |
| (1,914) | 1:A:80:ALA:HB1 | 1:A:83:ARG:HD3 | 17 | 0.11 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD2 | 17 | 0.11 |
| (1,914) | 1:A:80:ALA:HB2 | 1:A:83:ARG:HD3 | 17 | 0.11 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD2 | 17 | 0.11 |
| (1,914) | 1:A:80:ALA:HB3 | 1:A:83:ARG:HD3 | 17 | 0.11 |
| (1,89) | 1:A:135:LEU:HD11 | 1:A:23:TRP:HZ3 | 13 | 0.11 |
| (1,89) | 1:A:135:LEU:HD12 | 1:A:23:TRP:HZ3 | 13 | 0.11 |
| (1,89) | 1:A:135:LEU:HD13 | 1:A:23:TRP:HZ3 | 13 | 0.11 |
| (1,89) | 1:A:135:LEU:HD11 | 1:A:23:TRP:HZ3 | 19 | 0.11 |
| (1,89) | 1:A:135:LEU:HD12 | 1:A:23:TRP:HZ3 | 19 | 0.11 |
| (1,89) | 1:A:135:LEU:HD13 | 1:A:23:TRP:HZ3 | 19 | 0.11 |
| (1,868) | 1:A:75:TYR:HD1 | 1:A:75:TYR:H | 13 | 0.11 |
| (1,868) | 1:A:75:TYR:HD2 | 1:A:75:TYR:H | 13 | 0.11 |
| (1,851) | 1:A:73:ALA:HB1 | 1:A:137:ILE:HD11 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB1 | 1:A:137:ILE:HD12 | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,851) | 1:A:73:ALA:HB1 | 1:A:137:ILE:HD13 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB2 | 1:A:137:ILE:HD11 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB2 | 1:A:137:ILE:HD12 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB2 | 1:A:137:ILE:HD13 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB3 | 1:A:137:ILE:HD11 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB3 | 1:A:137:ILE:HD12 | 3 | 0.11 |
| (1,851) | 1:A:73:ALA:HB3 | 1:A:137:ILE:HD13 | 3 | 0.11 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 2 | 0.11 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 2 | 0.11 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 2 | 0.11 |
| (1,81) | 1:A:170:ILE:HD11 | 1:A:166:ILE:HA | 11 | 0.11 |
| (1,81) | 1:A:170:ILE:HD12 | 1:A:166:ILE:HA | 11 | 0.11 |
| (1,81) | 1:A:170:ILE:HD13 | 1:A:166:ILE:HA | 11 | 0.11 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD21 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD22 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG21 | 1:A:135:LEU:HD23 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD21 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD22 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG22 | 1:A:135:LEU:HD23 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD21 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD22 | 14 | 0.11 |
| (1,808) | 1:A:69:ILE:HG23 | 1:A:135:LEU:HD23 | 14 | 0.11 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 1 | 0.11 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 10 | 0.11 |
| (1,750) | 1:A:62:LEU:HA | 1:A:62:LEU:HG | 11 | 0.11 |
| (1,748) | 1:A:62:LEU:HD11 | 1:A:45:VAL:HA | 11 | 0.11 |
| (1,748) | 1:A:62:LEU:HD12 | 1:A:45:VAL:HA | 11 | 0.11 |
| (1,748) | 1:A:62:LEU:HD13 | 1:A:45:VAL:HA | 11 | 0.11 |
| (1,748) | 1:A:62:LEU:HD11 | 1:A:45:VAL:HA | 20 | 0.11 |
| (1,748) | 1:A:62:LEU:HD12 | 1:A:45:VAL:HA | 20 | 0.11 |
| (1,748) | 1:A:62:LEU:HD13 | 1:A:45:VAL:HA | 20 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 2 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 6 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 6 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 10 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 12 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB1 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB2 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD21 | 1:A:73:ALA:HB3 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB1 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB2 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD22 | 1:A:73:ALA:HB3 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB1 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB2 | 19 | 0.11 |
| (1,726) | 1:A:60:LEU:HD23 | 1:A:73:ALA:HB3 | 19 | 0.11 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD21 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD22 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG21 | 1:A:55:LEU:HD23 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD21 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD22 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG22 | 1:A:55:LEU:HD23 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD21 | 17 | 0.11 |
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD22 | 17 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,697) | 1:A:54:THR:HG23 | 1:A:55:LEU:HD23 | 17 | 0.11 |
| (1,679) | 1:A:48:ILE:HD11 | 1:A:48:ILE:HA | 1 | 0.11 |
| (1,679) | 1:A:48:ILE:HD12 | 1:A:48:ILE:HA | 1 | 0.11 |
| (1,679) | 1:A:48:ILE:HD13 | 1:A:48:ILE:HA | 1 | 0.11 |
| (1,676) | 1:A:48:ILE:HB | 1:A:48:ILE:H | 8 | 0.11 |
| (1,669) | 1:A:47:ARG:HD2 | 1:A:48:ILE:H | 3 | 0.11 |
| (1,669) | 1:A:47:ARG:HD3 | 1:A:48:ILE:H | 3 | 0.11 |
| (1,669) | 1:A:47:ARG:HD2 | 1:A:48:ILE:H | 7 | 0.11 |
| (1,669) | 1:A:47:ARG:HD3 | 1:A:48:ILE:H | 7 | 0.11 |
| (1,655) | 1:A:42:VAL:HG21 | 1:A:100:ILE:H | 5 | 0.11 |
| (1,655) | 1:A:42:VAL:HG22 | 1:A:100:ILE:H | 5 | 0.11 |
| (1,655) | 1:A:42:VAL:HG23 | 1:A:100:ILE:H | 5 | 0.11 |
| (1,637) | 1:A:42:VAL:HG21 | 1:A:99:MET:HA | 4 | 0.11 |
| (1,637) | 1:A:42:VAL:HG22 | 1:A:99:MET:HA | 4 | 0.11 |
| (1,637) | 1:A:42:VAL:HG23 | 1:A:99:MET:HA | 4 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD1 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD2 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD1 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD2 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD1 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD2 | 5 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD1 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD2 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD1 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD2 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD1 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD2 | 6 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD1 | 12 | 0.11 |
| (1,58) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HD2 | 12 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD1 | 12 | 0.11 |
| (1,58) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HD2 | 12 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD1 | 12 | 0.11 |
| (1,58) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HD2 | 12 | 0.11 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 1 | 0.11 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 1 | 0.11 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 1 | 0.11 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 6 | 0.11 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 6 | 0.11 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 6 | 0.11 |
| (1,574) | 1:A:33:LEU:HD11 | 1:A:34:GLY:H | 12 | 0.11 |
| (1,574) | 1:A:33:LEU:HD12 | 1:A:34:GLY:H | 12 | 0.11 |
| (1,574) | 1:A:33:LEU:HD13 | 1:A:34:GLY:H | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE1 | 5 | 0.11 |
| (1,57) | 1:A:128:LEU:HD21 | 1:A:129:PHE:HE2 | 5 | 0.11 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE1 | 5 | 0.11 |
| (1,57) | 1:A:128:LEU:HD22 | 1:A:129:PHE:HE2 | 5 | 0.11 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE1 | 5 | 0.11 |
| (1,57) | 1:A:128:LEU:HD23 | 1:A:129:PHE:HE2 | 5 | 0.11 |
| (1,56) | 1:A:45:VAL:HG21 | 1:A:60:LEU:HB2 | 15 | 0.11 |
| (1,56) | 1:A:45:VAL:HG21 | 1:A:60:LEU:HB3 | 15 | 0.11 |
| (1,56) | 1:A:45:VAL:HG22 | 1:A:60:LEU:HB2 | 15 | 0.11 |
| (1,56) | 1:A:45:VAL:HG22 | 1:A:60:LEU:HB3 | 15 | 0.11 |
| (1,56) | 1:A:45:VAL:HG23 | 1:A:60:LEU:HB2 | 15 | 0.11 |
| (1,56) | 1:A:45:VAL:HG23 | 1:A:60:LEU:HB3 | 15 | 0.11 |
| (1,538) | 1:A:27:VAL:HG11 | 1:A:26:PRO:HD2 | 17 | 0.11 |
| (1,538) | 1:A:27:VAL:HG12 | 1:A:26:PRO:HD2 | 17 | 0.11 |
| (1,538) | 1:A:27:VAL:HG13 | 1:A:26:PRO:HD2 | 17 | 0.11 |
| (1,50) | 1:A:150:LEU:HD21 | 1:A:64:ASP:HA | 15 | 0.11 |
| (1,50) | 1:A:150:LEU:HD22 | 1:A:64:ASP:HA | 15 | 0.11 |
| (1,50) | 1:A:150:LEU:HD23 | 1:A:64:ASP:HA | 15 | 0.11 |
| (1,499) | 1:A:20:MET:HE1 | 1:A:65:ALA:HA | 14 | 0.11 |
| (1,499) | 1:A:20:MET:HE2 | 1:A:65:ALA:HA | 14 | 0.11 |
| (1,499) | 1:A:20:MET:HE3 | 1:A:65:ALA:HA | 14 | 0.11 |
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD1 | 1 | 0.11 |
| (1,464) | 1:A:89:VAL:HA | 1:A:81:PHE:HD2 | 1 | 0.11 |
| (1,458) | 1:A:55:LEU:HD11 | 1:A:56:SER:H | 3 | 0.11 |
| (1,458) | 1:A:55:LEU:HD12 | 1:A:56:SER:H | 3 | 0.11 |
| (1,458) | 1:A:55:LEU:HD13 | 1:A:56:SER:H | 3 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 2 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 6 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB2 | 12 | 0.11 |
| (1,435) | 1:A:98:ILE:HG21 | 1:A:141:SER:HB3 | 12 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB2 | 12 | 0.11 |
| (1,435) | 1:A:98:ILE:HG22 | 1:A:141:SER:HB3 | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB2 | 12 | 0.11 |
| (1,435) | 1:A:98:ILE:HG23 | 1:A:141:SER:HB3 | 12 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 4 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 4 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 4 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 4 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 7 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 7 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 7 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 7 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG12 | 13 | 0.11 |
| (1,432) | 1:A:161:GLY:HA2 | 1:A:166:ILE:HG13 | 13 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG12 | 13 | 0.11 |
| (1,432) | 1:A:161:GLY:HA3 | 1:A:166:ILE:HG13 | 13 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG21 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG22 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG23 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG21 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG22 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG23 | 3 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG21 | 17 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG22 | 17 | 0.11 |
| (1,430) | 1:A:33:LEU:HB2 | 1:A:39:VAL:HG23 | 17 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG21 | 17 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG22 | 17 | 0.11 |
| (1,430) | 1:A:33:LEU:HB3 | 1:A:39:VAL:HG23 | 17 | 0.11 |
| (1,412) | 1:A:137:ILE:HD11 | 1:A:71:ALA:H | 14 | 0.11 |
| (1,412) | 1:A:137:ILE:HD12 | 1:A:71:ALA:H | 14 | 0.11 |
| (1,412) | 1:A:137:ILE:HD13 | 1:A:71:ALA:H | 14 | 0.11 |
| (1,412) | 1:A:137:ILE:HD11 | 1:A:71:ALA:H | 17 | 0.11 |
| (1,412) | 1:A:137:ILE:HD12 | 1:A:71:ALA:H | 17 | 0.11 |
| (1,412) | 1:A:137:ILE:HD13 | 1:A:71:ALA:H | 17 | 0.11 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 13 | 0.11 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 13 | 0.11 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB2 | 14 | 0.11 |
| (1,405) | 1:A:149:ILE:HA | 1:A:95:ASN:HB3 | 14 | 0.11 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB1 | 5 | 0.11 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB2 | 5 | 0.11 |
| (1,387) | 1:A:84:LYS:HD2 | 1:A:80:ALA:HB3 | 5 | 0.11 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB1 | 5 | 0.11 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB2 | 5 | 0.11 |
| (1,387) | 1:A:84:LYS:HD3 | 1:A:80:ALA:HB3 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD11 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD12 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD11 | 1:A:55:LEU:HD13 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD11 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD12 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD12 | 1:A:55:LEU:HD13 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD11 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD12 | 5 | 0.11 |
| (1,382) | 1:A:78:ILE:HD13 | 1:A:55:LEU:HD13 | 5 | 0.11 |
| (1,380) | 1:A:134:VAL:HA | 1:A:69:ILE:HG12 | 11 | 0.11 |
| (1,380) | 1:A:134:VAL:HA | 1:A:69:ILE:HG13 | 11 | 0.11 |
| (1,374) | 1:A:62:LEU:HD21 | 1:A:69:ILE:H | 1 | 0.11 |
| (1,374) | 1:A:62:LEU:HD22 | 1:A:69:ILE:H | 1 | 0.11 |
| (1,374) | 1:A:62:LEU:HD23 | 1:A:69:ILE:H | 1 | 0.11 |
| (1,374) | 1:A:62:LEU:HD21 | 1:A:69:ILE:H | 17 | 0.11 |
| (1,374) | 1:A:62:LEU:HD22 | 1:A:69:ILE:H | 17 | 0.11 |
| (1,374) | 1:A:62:LEU:HD23 | 1:A:69:ILE:H | 17 | 0.11 |
| (1,366) | 1:A:162:THR:HG21 | 1:A:157:GLU:HB2 | 20 | 0.11 |
| (1,366) | 1:A:162:THR:HG21 | 1:A:157:GLU:HB3 | 20 | 0.11 |
| (1,366) | 1:A:162:THR:HG22 | 1:A:157:GLU:HB2 | 20 | 0.11 |
| (1,366) | 1:A:162:THR:HG22 | 1:A:157:GLU:HB3 | 20 | 0.11 |
| (1,366) | 1:A:162:THR:HG23 | 1:A:157:GLU:HB2 | 20 | 0.11 |
| (1,366) | 1:A:162:THR:HG23 | 1:A:157:GLU:HB3 | 20 | 0.11 |
| (1,364) | 1:A:47:ARG:HD2 | 1:A:61:CYS:H | 7 | 0.11 |
| (1,364) | 1:A:47:ARG:HD3 | 1:A:61:CYS:H | 7 | 0.11 |
| (1,364) | 1:A:47:ARG:HD2 | 1:A:61:CYS:H | 9 | 0.11 |
| (1,364) | 1:A:47:ARG:HD3 | 1:A:61:CYS:H | 9 | 0.11 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB2 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB3 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB2 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB3 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB2 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB3 | 1 | 0.11 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB2 | 17 | 0.11 |
| (1,361) | 1:A:43:LEU:HD11 | 1:A:64:ASP:HB3 | 17 | 0.11 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB2 | 17 | 0.11 |
| (1,361) | 1:A:43:LEU:HD12 | 1:A:64:ASP:HB3 | 17 | 0.11 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB2 | 17 | 0.11 |
| (1,361) | 1:A:43:LEU:HD13 | 1:A:64:ASP:HB3 | 17 | 0.11 |
| (1,359) | 1:A:42:VAL:HB | 1:A:20:MET:HA | 8 | 0.11 |
| (1,35) | 1:A:39:VAL:HG11 | 1:A:103:PHE:HZ | 1 | 0.11 |
| (1,35) | 1:A:39:VAL:HG12 | 1:A:103:PHE:HZ | 1 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,35) | 1:A:39:VAL:HG13 | 1:A:103:PHE:HZ | 1 | 0.11 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB1 | 11 | 0.11 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB2 | 11 | 0.11 |
| (1,337) | 1:A:19:HIS:HD2 | 1:A:18:ALA:HB3 | 11 | 0.11 |
| (1,336) | 1:A:64:ASP:HB2 | 1:A:43:LEU:HG | 18 | 0.11 |
| (1,336) | 1:A:64:ASP:HB3 | 1:A:43:LEU:HG | 18 | 0.11 |
| (1,335) | 1:A:20:MET:HG2 | 1:A:65:ALA:HA | 17 | 0.11 |
| (1,335) | 1:A:20:MET:HG3 | 1:A:65:ALA:HA | 17 | 0.11 |
| (1,334) | 1:A:26:PRO:HB2 | 1:A:31:ALA:H | 9 | 0.11 |
| (1,334) | 1:A:26:PRO:HB3 | 1:A:31:ALA:H | 9 | 0.11 |
| (1,334) | 1:A:26:PRO:HB2 | 1:A:31:ALA:H | 17 | 0.11 |
| (1,334) | 1:A:26:PRO:HB3 | 1:A:31:ALA:H | 17 | 0.11 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 1 | 0.11 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 4 | 0.11 |
| (1,328) | 1:A:56:SER:HA | 1:A:91:GLN:HE21 | 15 | 0.11 |
| (1,326) | 1:A:48:ILE:HA | 1:A:50:PRO:HD3 | 7 | 0.11 |
| (1,306) | 1:A:108:TYR:HE1 | 1:A:112:GLN:HA | 9 | 0.11 |
| (1,306) | 1:A:108:TYR:HE2 | 1:A:112:GLN:HA | 9 | 0.11 |
| (1,306) | 1:A:108:TYR:HE1 | 1:A:112:GLN:HA | 13 | 0.11 |
| (1,306) | 1:A:108:TYR:HE2 | 1:A:112:GLN:HA | 13 | 0.11 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 11 | 0.11 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 11 | 0.11 |
| (1,305) | 1:A:75:TYR:HE1 | 1:A:55:LEU:HA | 13 | 0.11 |
| (1,305) | 1:A:75:TYR:HE2 | 1:A:55:LEU:HA | 13 | 0.11 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB2 | 20 | 0.11 |
| (1,304) | 1:A:67:TYR:HE1 | 1:A:24:LEU:HB3 | 20 | 0.11 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB2 | 20 | 0.11 |
| (1,304) | 1:A:67:TYR:HE2 | 1:A:24:LEU:HB3 | 20 | 0.11 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG21 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG22 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB1 | 1:A:12:VAL:HG23 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG21 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG22 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB2 | 1:A:12:VAL:HG23 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG21 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG22 | 19 | 0.11 |
| (1,300) | 1:A:11:ALA:HB3 | 1:A:12:VAL:HG23 | 19 | 0.11 |
| (1,30) | 1:A:39:VAL:HG11 | 1:A:23:TRP:HZ3 | 8 | 0.11 |
| (1,30) | 1:A:39:VAL:HG12 | 1:A:23:TRP:HZ3 | 8 | 0.11 |
| (1,30) | 1:A:39:VAL:HG13 | 1:A:23:TRP:HZ3 | 8 | 0.11 |
| (1,295) | 1:A:27:VAL:HG21 | 1:A:23:TRP:HE3 | 5 | 0.11 |
| (1,295) | 1:A:27:VAL:HG22 | 1:A:23:TRP:HE3 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,295) | 1:A:27:VAL:HG23 | 1:A:23:TRP:HE3 | 5 | 0.11 |
| (1,289) | 1:A:26:PRO:HB2 | 1:A:30:GLU:H | 15 | 0.11 |
| (1,289) | 1:A:26:PRO:HB3 | 1:A:30:GLU:H | 15 | 0.11 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB2 | 13 | 0.11 |
| (1,288) | 1:A:31:ALA:HB1 | 1:A:33:LEU:HB3 | 13 | 0.11 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB2 | 13 | 0.11 |
| (1,288) | 1:A:31:ALA:HB2 | 1:A:33:LEU:HB3 | 13 | 0.11 |
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB2 | 13 | 0.11 |
| (1,288) | 1:A:31:ALA:HB3 | 1:A:33:LEU:HB3 | 13 | 0.11 |
| (1,284) | 1:A:39:VAL:HG21 | 1:A:40:ASP:HA | 13 | 0.11 |
| (1,284) | 1:A:39:VAL:HG22 | 1:A:40:ASP:HA | 13 | 0.11 |
| (1,284) | 1:A:39:VAL:HG23 | 1:A:40:ASP:HA | 13 | 0.11 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG11 | 7 | 0.11 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG12 | 7 | 0.11 |
| (1,276) | 1:A:44:LYS:HA | 1:A:45:VAL:HG13 | 7 | 0.11 |
| (1,272) | 1:A:47:ARG:HB2 | 1:A:117:PHE:HD1 | 4 | 0.11 |
| (1,272) | 1:A:47:ARG:HB2 | 1:A:117:PHE:HD2 | 4 | 0.11 |
| (1,272) | 1:A:47:ARG:HB3 | 1:A:117:PHE:HD1 | 4 | 0.11 |
| (1,272) | 1:A:47:ARG:HB3 | 1:A:117:PHE:HD2 | 4 | 0.11 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 3 | 0.11 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 3 | 0.11 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 3 | 0.11 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 3 | 0.11 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD1 | 19 | 0.11 |
| (1,271) | 1:A:47:ARG:HG2 | 1:A:117:PHE:HD2 | 19 | 0.11 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD1 | 19 | 0.11 |
| (1,271) | 1:A:47:ARG:HG3 | 1:A:117:PHE:HD2 | 19 | 0.11 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD21 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD22 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG21 | 1:A:58:LEU:HD23 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD21 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD22 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG22 | 1:A:58:LEU:HD23 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD21 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD22 | 8 | 0.11 |
| (1,269) | 1:A:48:ILE:HG23 | 1:A:58:LEU:HD23 | 8 | 0.11 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 4 | 0.11 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 4 | 0.11 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 4 | 0.11 |
| (1,260) | 1:A:69:ILE:HD11 | 1:A:62:LEU:H | 15 | 0.11 |
| (1,260) | 1:A:69:ILE:HD12 | 1:A:62:LEU:H | 15 | 0.11 |
| (1,260) | 1:A:69:ILE:HD13 | 1:A:62:LEU:H | 15 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,232) | 1:A:92:ASN:HB2 | 1:A:93:LEU:HA | 11 | 0.11 |
| (1,232) | 1:A:92:ASN:HB3 | 1:A:93:LEU:HA | 11 | 0.11 |
| (1,23) | 1:A:105:ILE:HG12 | 1:A:133:LEU:HD21 | 16 | 0.11 |
| (1,23) | 1:A:105:ILE:HG12 | 1:A:133:LEU:HD22 | 16 | 0.11 |
| (1,23) | 1:A:105:ILE:HG12 | 1:A:133:LEU:HD23 | 16 | 0.11 |
| (1,23) | 1:A:105:ILE:HG13 | 1:A:133:LEU:HD21 | 16 | 0.11 |
| (1,23) | 1:A:105:ILE:HG13 | 1:A:133:LEU:HD22 | 16 | 0.11 |
| (1,23) | 1:A:105:ILE:HG13 | 1:A:133:LEU:HD23 | 16 | 0.11 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 16 | 0.11 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 16 | 0.11 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 16 | 0.11 |
| (1,229) | 1:A:99:MET:HE1 | 1:A:40:ASP:HA | 19 | 0.11 |
| (1,229) | 1:A:99:MET:HE2 | 1:A:40:ASP:HA | 19 | 0.11 |
| (1,229) | 1:A:99:MET:HE3 | 1:A:40:ASP:HA | 19 | 0.11 |
| (1,2258) | 1:A:137:ILE:HA | 1:A:104:THR:H | 4 | 0.11 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD11 | 2 | 0.11 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD12 | 2 | 0.11 |
| (1,2246) | 1:A:25:GLU:H | 1:A:24:LEU:HD13 | 2 | 0.11 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 10 | 0.11 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 10 | 0.11 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG2 | 11 | 0.11 |
| (1,2198) | 1:A:141:SER:H | 1:A:99:MET:HG3 | 11 | 0.11 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 3 | 0.11 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 7 | 0.11 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 11 | 0.11 |
| (1,2184) | 1:A:158:PHE:H | 1:A:159:LEU:H | 14 | 0.11 |
| (1,2180) | 1:A:140:PHE:HD1 | 1:A:142:MET:H | 8 | 0.11 |
| (1,2180) | 1:A:140:PHE:HD2 | 1:A:142:MET:H | 8 | 0.11 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 1 | 0.11 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 6 | 0.11 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 9 | 0.11 |
| (1,2152) | 1:A:136:GLU:H | 1:A:135:LEU:HG | 12 | 0.11 |
| (1,2134) | 1:A:153:ALA:HB1 | 1:A:150:LEU:H | 2 | 0.11 |
| (1,2134) | 1:A:153:ALA:HB2 | 1:A:150:LEU:H | 2 | 0.11 |
| (1,2134) | 1:A:153:ALA:HB3 | 1:A:150:LEU:H | 2 | 0.11 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 3 | 0.11 |
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 3 | 0.11 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 3 | 0.11 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 5 | 0.11 |
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 5 | 0.11 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 5 | 0.11 |
| (1,213) | 1:A:113:VAL:HG21 | 1:A:122:PHE:HZ | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,213) | 1:A:113:VAL:HG22 | 1:A:122:PHE:HZ | 10 | 0.11 |
| (1,213) | 1:A:113:VAL:HG23 | 1:A:122:PHE:HZ | 10 | 0.11 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB2 | 16 | 0.11 |
| (1,2127) | 1:A:103:PHE:H | 1:A:38:LYS:HB3 | 16 | 0.11 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE1 | 1 | 0.11 |
| (1,2091) | 1:A:71:ALA:H | 1:A:117:PHE:HE2 | 1 | 0.11 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG21 | 5 | 0.11 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG22 | 5 | 0.11 |
| (1,2083) | 1:A:61:CYS:H | 1:A:45:VAL:HG23 | 5 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 2 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 2 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 13 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 13 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE1 | 17 | 0.11 |
| (1,2082) | 1:A:79:ALA:H | 1:A:75:TYR:HE2 | 17 | 0.11 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD1 | 13 | 0.11 |
| (1,2080) | 1:A:61:CYS:H | 1:A:117:PHE:HD2 | 13 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 16 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 16 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 16 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG11 | 18 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG12 | 18 | 0.11 |
| (1,2044) | 1:A:46:LEU:H | 1:A:45:VAL:HG13 | 18 | 0.11 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB2 | 17 | 0.11 |
| (1,204) | 1:A:120:LEU:HG | 1:A:117:PHE:HB3 | 17 | 0.11 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 11 | 0.11 |
| (1,2021) | 1:A:33:LEU:H | 1:A:34:GLY:H | 20 | 0.11 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE1 | 13 | 0.11 |
| (1,2004) | 1:A:78:ILE:H | 1:A:140:PHE:HE2 | 13 | 0.11 |
| (1,200) | 1:A:90:THR:HG21 | 1:A:91:GLN:H | 13 | 0.11 |
| (1,200) | 1:A:90:THR:HG22 | 1:A:91:GLN:H | 13 | 0.11 |
| (1,200) | 1:A:90:THR:HG23 | 1:A:91:GLN:H | 13 | 0.11 |
| (1,1999) | 1:A:149:ILE:HD11 | 1:A:149:ILE:H | 8 | 0.11 |
| (1,1999) | 1:A:149:ILE:HD12 | 1:A:149:ILE:H | 8 | 0.11 |
| (1,1999) | 1:A:149:ILE:HD13 | 1:A:149:ILE:H | 8 | 0.11 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD1 | 1 | 0.11 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD2 | 1 | 0.11 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD1 | 5 | 0.11 |
| (1,1981) | 1:A:66:ASN:H | 1:A:67:TYR:HD2 | 5 | 0.11 |
| (1,1958) | 1:A:16:ALA:H | 1:A:14:VAL:HG11 | 11 | 0.11 |
| (1,1958) | 1:A:16:ALA:H | 1:A:14:VAL:HG12 | 11 | 0.11 |
| (1,1958) | 1:A:16:ALA:H | 1:A:14:VAL:HG13 | 11 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1954) | 1:A:16:ALA:H | 1:A:15:THR:HG21 | 11 | 0.11 |
| (1,1954) | 1:A:16:ALA:H | 1:A:15:THR:HG22 | 11 | 0.11 |
| (1,1954) | 1:A:16:ALA:H | 1:A:15:THR:HG23 | 11 | 0.11 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE2 | 13 | 0.11 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE3 | 13 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE2 | 13 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE3 | 13 | 0.11 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE2 | 16 | 0.11 |
| (1,194) | 1:A:125:LYS:HB2 | 1:A:125:LYS:HE3 | 16 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE2 | 16 | 0.11 |
| (1,194) | 1:A:125:LYS:HB3 | 1:A:125:LYS:HE3 | 16 | 0.11 |
| (1,1924) | 1:A:13:ARG:H | 1:A:13:ARG:HG2 | 2 | 0.11 |
| (1,1924) | 1:A:13:ARG:H | 1:A:13:ARG:HG3 | 2 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 5 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 5 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 5 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 14 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 14 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 14 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG21 | 18 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG22 | 18 | 0.11 |
| (1,1922) | 1:A:13:ARG:H | 1:A:12:VAL:HG23 | 18 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 6 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 6 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 12 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 12 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD1 | 14 | 0.11 |
| (1,1895) | 1:A:76:LYS:H | 1:A:75:TYR:HD2 | 14 | 0.11 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB1 | 13 | 0.11 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB2 | 13 | 0.11 |
| (1,1862) | 1:A:15:THR:H | 1:A:16:ALA:HB3 | 13 | 0.11 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD21 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD22 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD21 | 1:A:24:LEU:HD23 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD21 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD22 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD22 | 1:A:24:LEU:HD23 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD21 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD22 | 7 | 0.11 |
| (1,186) | 1:A:135:LEU:HD23 | 1:A:24:LEU:HD23 | 7 | 0.11 |
| (1,1854) | 1:A:146:ASP:H | 1:A:147:GLN:H | 7 | 0.11 |
| (1,1854) | 1:A:146:ASP:H | 1:A:147:GLN:H | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1854) | 1:A:146:ASP:H | 1:A:147:GLN:H | 19 | 0.11 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD11 | 10 | 0.11 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD12 | 10 | 0.11 |
| (1,1849) | 1:A:96:SER:H | 1:A:98:ILE:HD13 | 10 | 0.11 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG2 | 3 | 0.11 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG3 | 3 | 0.11 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG2 | 8 | 0.11 |
| (1,1827) | 1:A:10:ASP:H | 1:A:9:ARG:HG3 | 8 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 10 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 18 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD1 | 19 | 0.11 |
| (1,182) | 1:A:135:LEU:HD21 | 1:A:103:PHE:HD2 | 19 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD1 | 19 | 0.11 |
| (1,182) | 1:A:135:LEU:HD22 | 1:A:103:PHE:HD2 | 19 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD1 | 19 | 0.11 |
| (1,182) | 1:A:135:LEU:HD23 | 1:A:103:PHE:HD2 | 19 | 0.11 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB2 | 2 | 0.11 |
| (1,1808) | 1:A:129:PHE:H | 1:A:128:LEU:HB3 | 2 | 0.11 |
| (1,1801) | 1:A:41:LYS:HD2 | 1:A:42:VAL:H | 16 | 0.11 |
| (1,1801) | 1:A:41:LYS:HD3 | 1:A:42:VAL:H | 16 | 0.11 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB2 | 7 | 0.11 |
| (1,1781) | 1:A:125:LYS:H | 1:A:124:GLN:HB3 | 7 | 0.11 |
| (1,1764) | 1:A:123:LYS:H | 1:A:121:LYS:HB2 | 18 | 0.11 |
| (1,1764) | 1:A:123:LYS:H | 1:A:121:LYS:HB3 | 18 | 0.11 |
| (1,1759) | 1:A:54:THR:HB | 1:A:55:LEU:H | 10 | 0.11 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD11 | 9 | 0.11 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD12 | 9 | 0.11 |
| (1,1733) | 1:A:29:CYS:H | 1:A:28:LEU:HD13 | 9 | 0.11 |
| (1,1729) | 1:A:171:GLU:H | 1:A:170:ILE:HG12 | 17 | 0.11 |
| (1,1729) | 1:A:171:GLU:H | 1:A:170:ILE:HG13 | 17 | 0.11 |
| (1,1721) | 1:A:135:LEU:H | 1:A:135:LEU:HG | 17 | 0.11 |
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB2 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1715) | 1:A:41:LYS:H | 1:A:99:MET:HB3 | 5 | 0.11 |
| (1,1705) | 1:A:47:ARG:H | 1:A:61:CYS:H | 8 | 0.11 |
| (1,1689) | 1:A:170:ILE:HG21 | 1:A:172:GLN:H | 10 | 0.11 |
| (1,1689) | 1:A:170:ILE:HG22 | 1:A:172:GLN:H | 10 | 0.11 |
| (1,1689) | 1:A:170:ILE:HG23 | 1:A:172:GLN:H | 10 | 0.11 |
| (1,1686) | 1:A:170:ILE:H | 1:A:169:PHE:HD1 | 2 | 0.11 |
| (1,1686) | 1:A:170:ILE:H | 1:A:169:PHE:HD2 | 2 | 0.11 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB1 | 1 | 0.11 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB2 | 1 | 0.11 |
| (1,1653) | 1:A:84:LYS:H | 1:A:80:ALA:HB3 | 1 | 0.11 |
| (1,164) | 1:A:156:ILE:HD11 | 1:A:66:ASN:HA | 5 | 0.11 |
| (1,164) | 1:A:156:ILE:HD12 | 1:A:66:ASN:HA | 5 | 0.11 |
| (1,164) | 1:A:156:ILE:HD13 | 1:A:66:ASN:HA | 5 | 0.11 |
| (1,1637) | 1:A:155:THR:H | 1:A:156:ILE:HG13 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 5 | 0.11 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB2 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG21 | 1:A:67:TYR:HB3 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB2 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG22 | 1:A:67:TYR:HB3 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB2 | 15 | 0.11 |
| (1,162) | 1:A:156:ILE:HG23 | 1:A:67:TYR:HB3 | 15 | 0.11 |
| (1,1596) | 1:A:102:SER:H | 1:A:101:HIS:HD2 | 13 | 0.11 |
| (1,1590) | 1:A:139:ASP:H | 1:A:140:PHE:HA | 11 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 1 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 2 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 6 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 11 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 12 | 0.11 |
| (1,1557) | 1:A:74:ASN:H | 1:A:75:TYR:H | 14 | 0.11 |
| (1,1555) | 1:A:74:ASN:H | 1:A:76:LYS:H | 2 | 0.11 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 7 | 0.11 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 11 | 0.11 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 13 | 0.11 |
| (1,1553) | 1:A:156:ILE:H | 1:A:157:GLU:H | 20 | 0.11 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB2 | 10 | 0.11 |
| (1,155) | 1:A:162:THR:HG21 | 1:A:67:TYR:HB3 | 10 | 0.11 |
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB2 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,155) | 1:A:162:THR:HG22 | 1:A:67:TYR:HB3 | 10 | 0.11 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB2 | 10 | 0.11 |
| (1,155) | 1:A:162:THR:HG23 | 1:A:67:TYR:HB3 | 10 | 0.11 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 13 | 0.11 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 16 | 0.11 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 18 | 0.11 |
| (1,1537) | 1:A:93:LEU:H | 1:A:90:THR:HA | 20 | 0.11 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD21 | 14 | 0.11 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD22 | 14 | 0.11 |
| (1,1535) | 1:A:93:LEU:H | 1:A:93:LEU:HD23 | 14 | 0.11 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD11 | 18 | 0.11 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD12 | 18 | 0.11 |
| (1,1534) | 1:A:93:LEU:H | 1:A:93:LEU:HD13 | 18 | 0.11 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG21 | 11 | 0.11 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG22 | 11 | 0.11 |
| (1,1474) | 1:A:124:GLN:HE22 | 1:A:170:ILE:HG23 | 11 | 0.11 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG2 | 10 | 0.11 |
| (1,1428) | 1:A:171:GLU:HA | 1:A:171:GLU:HG3 | 10 | 0.11 |
| (1,1422) | 1:A:170:ILE:HG21 | 1:A:171:GLU:H | 15 | 0.11 |
| (1,1422) | 1:A:170:ILE:HG22 | 1:A:171:GLU:H | 15 | 0.11 |
| (1,1422) | 1:A:170:ILE:HG23 | 1:A:171:GLU:H | 15 | 0.11 |
| (1,1357) | 1:A:162:THR:HG21 | 1:A:161:GLY:H | 1 | 0.11 |
| (1,1357) | 1:A:162:THR:HG22 | 1:A:161:GLY:H | 1 | 0.11 |
| (1,1357) | 1:A:162:THR:HG23 | 1:A:161:GLY:H | 1 | 0.11 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD21 | 10 | 0.11 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD22 | 10 | 0.11 |
| (1,134) | 1:A:48:ILE:HA | 1:A:58:LEU:HD23 | 10 | 0.11 |
| (1,1310) | 1:A:156:ILE:HB | 1:A:157:GLU:H | 15 | 0.11 |
| (1,1303) | 1:A:155:THR:HB | 1:A:156:ILE:H | 18 | 0.11 |
| (1,130) | 1:A:134:VAL:HG11 | 1:A:116:PHE:HE1 | 10 | 0.11 |
| (1,130) | 1:A:134:VAL:HG11 | 1:A:116:PHE:HE2 | 10 | 0.11 |
| (1,130) | 1:A:134:VAL:HG12 | 1:A:116:PHE:HE1 | 10 | 0.11 |
| (1,130) | 1:A:134:VAL:HG12 | 1:A:116:PHE:HE2 | 10 | 0.11 |
| (1,130) | 1:A:134:VAL:HG13 | 1:A:116:PHE:HE1 | 10 | 0.11 |
| (1,130) | 1:A:134:VAL:HG13 | 1:A:116:PHE:HE2 | 10 | 0.11 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG21 | 15 | 0.11 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG22 | 15 | 0.11 |
| (1,1294) | 1:A:151:SER:HB2 | 1:A:149:ILE:HG23 | 15 | 0.11 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG21 | 15 | 0.11 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG22 | 15 | 0.11 |
| (1,1294) | 1:A:151:SER:HB3 | 1:A:149:ILE:HG23 | 15 | 0.11 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 6 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 6 | 0.11 |
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 6 | 0.11 |
| (1,1266) | 1:A:142:MET:HE1 | 1:A:97:GLU:H | 12 | 0.11 |
| (1,1266) | 1:A:142:MET:HE2 | 1:A:97:GLU:H | 12 | 0.11 |
| (1,1266) | 1:A:142:MET:HE3 | 1:A:97:GLU:H | 12 | 0.11 |
| (1,1263) | 1:A:142:MET:HE1 | 1:A:99:MET:H | 19 | 0.11 |
| (1,1263) | 1:A:142:MET:HE2 | 1:A:99:MET:H | 19 | 0.11 |
| (1,1263) | 1:A:142:MET:HE3 | 1:A:99:MET:H | 19 | 0.11 |
| (1,1247) | 1:A:100:ILE:HD11 | 1:A:140:PHE:HA | 14 | 0.11 |
| (1,1247) | 1:A:100:ILE:HD12 | 1:A:140:PHE:HA | 14 | 0.11 |
| (1,1247) | 1:A:100:ILE:HD13 | 1:A:140:PHE:HA | 14 | 0.11 |
| (1,122) | 1:A:114:GLN:HA | 1:A:119:GLY:H | 1 | 0.11 |
| (1,122) | 1:A:114:GLN:HA | 1:A:119:GLY:H | 10 | 0.11 |
| (1,122) | 1:A:114:GLN:HA | 1:A:119:GLY:H | 17 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 5 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 5 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 5 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD21 | 1:A:136:GLU:H | 10 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD22 | 1:A:136:GLU:H | 10 | 0.11 |
| (1,1213) | 1:A:135:LEU:HD23 | 1:A:136:GLU:H | 10 | 0.11 |
| (1,1182) | 1:A:133:LEU:HD11 | 1:A:133:LEU:H | 15 | 0.11 |
| (1,1182) | 1:A:133:LEU:HD12 | 1:A:133:LEU:H | 15 | 0.11 |
| (1,1182) | 1:A:133:LEU:HD13 | 1:A:133:LEU:H | 15 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 4 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 4 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 4 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD11 | 5 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD12 | 5 | 0.11 |
| (1,1180) | 1:A:133:LEU:HA | 1:A:133:LEU:HD13 | 5 | 0.11 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 9 | 0.11 |
| (1,1151) | 1:A:125:LYS:HA | 1:A:126:ALA:H | 14 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 9 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD11 | 19 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD12 | 19 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE1 | 1:A:60:LEU:HD13 | 19 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD11 | 19 | 0.11 |
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD12 | 19 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1122) | 1:A:117:PHE:HE2 | 1:A:60:LEU:HD13 | 19 | 0.11 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 6 | 0.11 |
| (1,1096) | 1:A:113:VAL:HB | 1:A:113:VAL:H | 12 | 0.11 |
| (1,1042) | 1:A:102:SER:HB2 | 1:A:139:ASP:H | 10 | 0.11 |
| (1,1042) | 1:A:102:SER:HB3 | 1:A:139:ASP:H | 10 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 2 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 2 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 2 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 3 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 3 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 3 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 6 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 6 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 6 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 12 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 12 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 12 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG21 | 19 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG22 | 19 | 0.11 |
| (1,1023) | 1:A:100:ILE:HB | 1:A:137:ILE:HG23 | 19 | 0.11 |
| (1,1018) | 1:A:99:MET:HG2 | 1:A:100:ILE:H | 11 | 0.11 |
| (1,1018) | 1:A:99:MET:HG3 | 1:A:100:ILE:H | 11 | 0.11 |
| (1,1005) | 1:A:98:ILE:HG21 | 1:A:143:PHE:H | 17 | 0.11 |
| (1,1005) | 1:A:98:ILE:HG22 | 1:A:143:PHE:H | 17 | 0.11 |
| (1,1005) | 1:A:98:ILE:HG23 | 1:A:143:PHE:H | 17 | 0.11 |

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

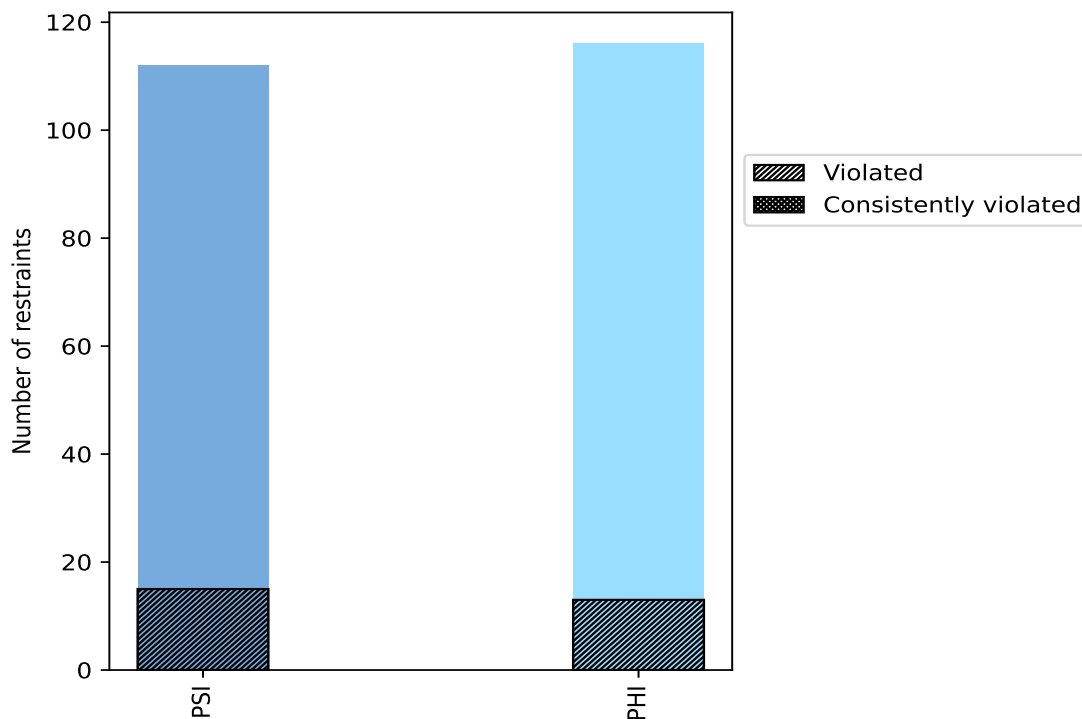
10.1 Summary of dihedral-angle violations [i](#)

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 | 112 | 49.1 | 15 | 13.4 | 6.6 | 0 | 0.0 | 0.0 |
| PHI | 116 | 50.9 | 13 | 11.2 | 5.7 | 0 | 0.0 | 0.0 |
| Total | 228 | 100.0 | 28 | 12.3 | 12.3 | 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](#)



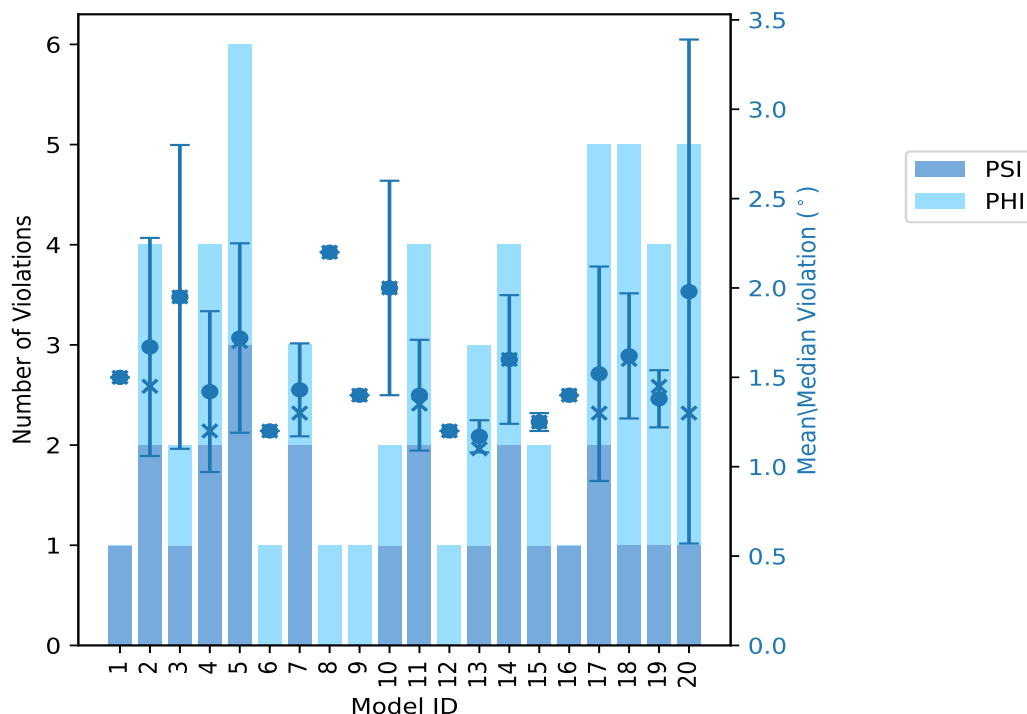
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 | 1 | 0 | 1 | 1.5 | 1.5 | 0.0 | 1.5 |
| 2 | 2 | 2 | 4 | 1.67 | 2.7 | 0.61 | 1.45 |
| 3 | 1 | 1 | 2 | 1.95 | 2.8 | 0.85 | 1.95 |
| 4 | 2 | 2 | 4 | 1.42 | 2.2 | 0.45 | 1.2 |
| 5 | 3 | 3 | 6 | 1.72 | 2.4 | 0.53 | 1.7 |
| 6 | 0 | 1 | 1 | 1.2 | 1.2 | 0.0 | 1.2 |
| 7 | 2 | 1 | 3 | 1.43 | 1.8 | 0.26 | 1.3 |
| 8 | 0 | 1 | 1 | 2.2 | 2.2 | 0.0 | 2.2 |
| 9 | 0 | 1 | 1 | 1.4 | 1.4 | 0.0 | 1.4 |
| 10 | 1 | 1 | 2 | 2.0 | 2.6 | 0.6 | 2.0 |
| 11 | 2 | 2 | 4 | 1.4 | 1.8 | 0.31 | 1.35 |
| 12 | 0 | 1 | 1 | 1.2 | 1.2 | 0.0 | 1.2 |
| 13 | 1 | 2 | 3 | 1.17 | 1.3 | 0.09 | 1.1 |
| 14 | 2 | 2 | 4 | 1.6 | 2.1 | 0.36 | 1.6 |
| 15 | 1 | 1 | 2 | 1.25 | 1.3 | 0.05 | 1.25 |
| 16 | 1 | 0 | 1 | 1.4 | 1.4 | 0.0 | 1.4 |
| 17 | 2 | 3 | 5 | 1.52 | 2.7 | 0.6 | 1.3 |
| 18 | 1 | 4 | 5 | 1.62 | 2.2 | 0.35 | 1.6 |
| 19 | 1 | 3 | 4 | 1.38 | 1.5 | 0.16 | 1.45 |
| 20 | 1 | 4 | 5 | 1.98 | 4.8 | 1.41 | 1.3 |

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 | % |
| 9 | 6 | 15 | 1 | 5.0 |
| 4 | 4 | 8 | 2 | 10.0 |
| 1 | 0 | 1 | 3 | 15.0 |
| 1 | 0 | 1 | 4 | 20.0 |
| 0 | 1 | 1 | 5 | 25.0 |
| 0 | 0 | 0 | 6 | 30.0 |
| 0 | 0 | 0 | 7 | 35.0 |
| 0 | 2 | 2 | 8 | 40.0 |
| 0 | 0 | 0 | 9 | 45.0 |
| 0 | 0 | 0 | 10 | 50.0 |
| 0 | 0 | 0 | 11 | 55.0 |

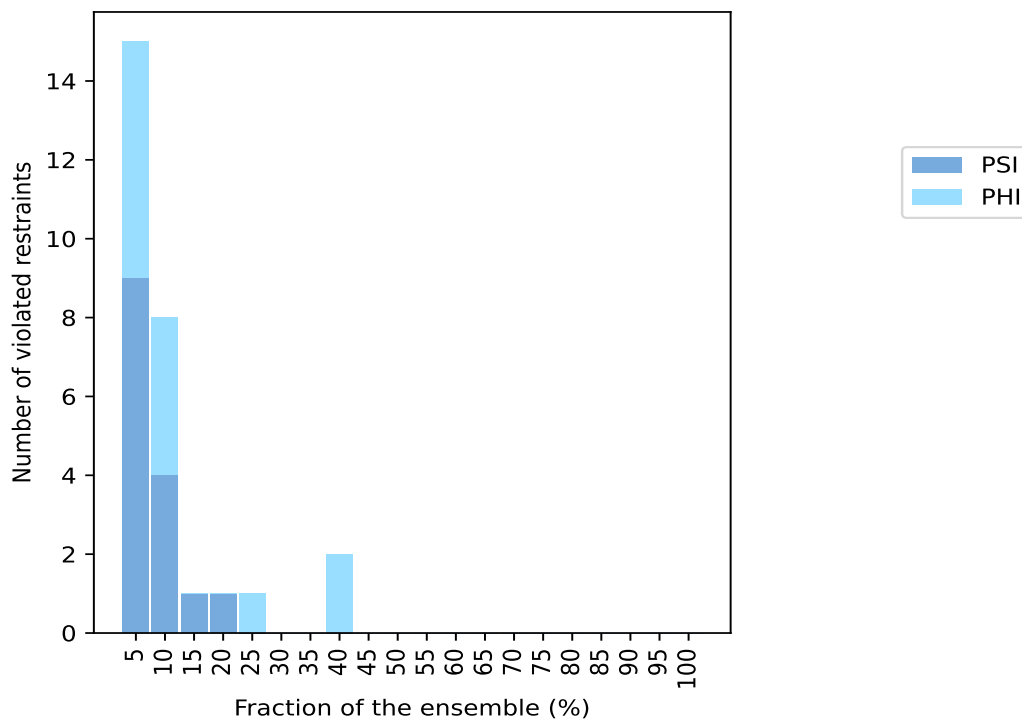
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| Number of violated restraints | | | Fraction of the ensemble | |
|-------------------------------|-----|-------|--------------------------|-------|
| PSI | PHI | Total | Count ¹ | % |
| 0 | 0 | 0 | 12 | 60.0 |
| 0 | 0 | 0 | 13 | 65.0 |
| 0 | 0 | 0 | 14 | 70.0 |
| 0 | 0 | 0 | 15 | 75.0 |
| 0 | 0 | 0 | 16 | 80.0 |
| 0 | 0 | 0 | 17 | 85.0 |
| 0 | 0 | 0 | 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](#)

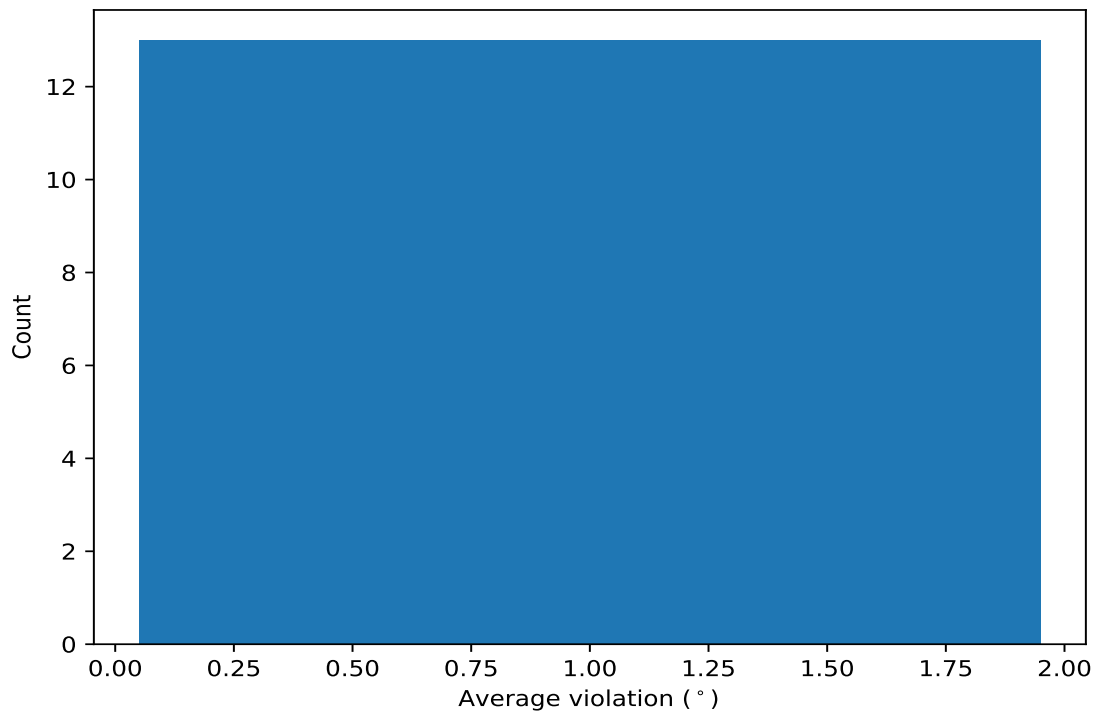


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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.

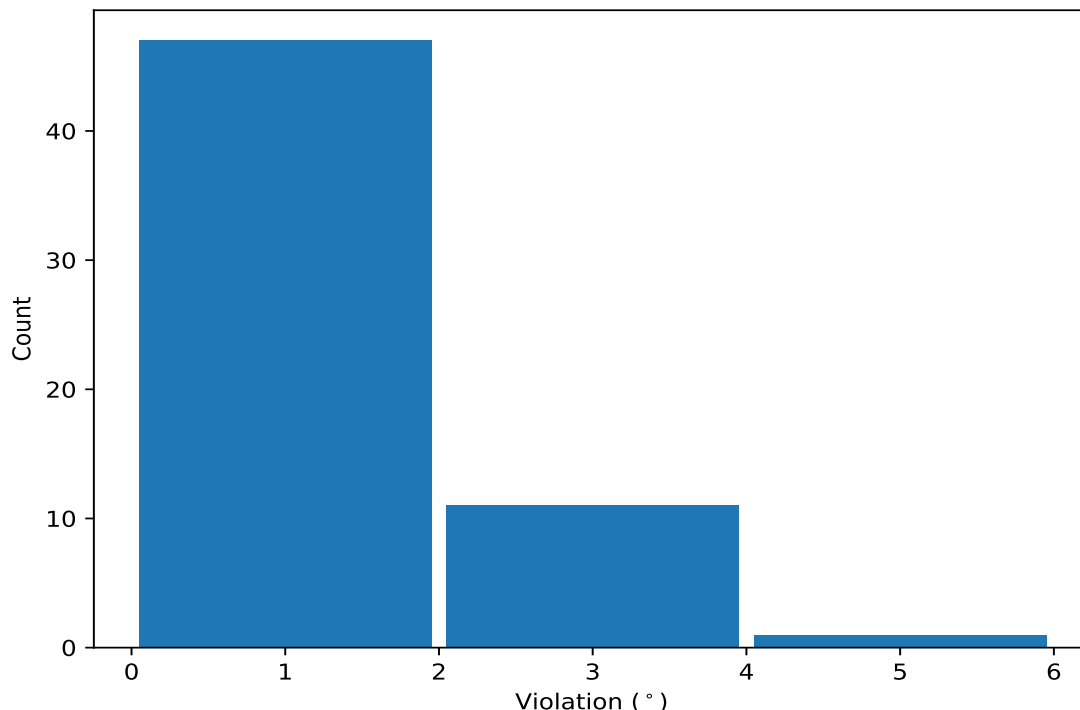
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|---------------|----------------|---------------|---------------|---------------------|------|-----------------|--------|
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 8 | 2.0 | 0.47 | 2.15 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 8 | 1.78 | 0.57 | 1.6 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 5 | 1.62 | 0.55 | 1.3 |
| (1,159) | 1:A:80:ALA:N | 1:A:80:ALA:CA | 1:A:80:ALA:C | 1:A:81:PHE:N | 4 | 1.2 | 0.17 | 1.1 |
| (1,163) | 1:A:85:GLU:N | 1:A:85:GLU:CA | 1:A:85:GLU:C | 1:A:86:ARG:N | 3 | 1.37 | 0.21 | 1.4 |
| (1,190) | 1:A:119:GLY:N | 1:A:119:GLY:CA | 1:A:119:GLY:C | 1:A:120:LEU:N | 2 | 1.65 | 0.55 | 1.65 |
| (1,168) | 1:A:90:THR:N | 1:A:90:THR:CA | 1:A:90:THR:C | 1:A:91:GLN:N | 2 | 1.55 | 0.15 | 1.55 |
| (1,5) | 1:A:27:VAL:C | 1:A:28:LEU:N | 1:A:28:LEU:CA | 1:A:28:LEU:C | 2 | 1.4 | 0.1 | 1.4 |
| (1,47) | 1:A:81:PHE:C | 1:A:82:GLU:N | 1:A:82:GLU:CA | 1:A:82:GLU:C | 2 | 1.4 | 0.1 | 1.4 |
| (1,40) | 1:A:74:ASN:C | 1:A:75:TYR:N | 1:A:75:TYR:CA | 1:A:75:TYR:C | 2 | 1.35 | 0.05 | 1.35 |
| (1,135) | 1:A:47:ARG:N | 1:A:47:ARG:CA | 1:A:47:ARG:C | 1:A:48:ILE:N | 2 | 1.3 | 0.2 | 1.3 |
| (1,123) | 1:A:30:GLU:N | 1:A:30:GLU:CA | 1:A:30:GLU:C | 1:A:31:ALA:N | 2 | 1.15 | 0.05 | 1.15 |
| (1,42) | 1:A:76:LYS:C | 1:A:77:ALA:N | 1:A:77:ALA:CA | 1:A:77:ALA:C | 2 | 1.1 | 0.0 | 1.1 |

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 (°) |
|---------|---------------|----------------|----------------|---------------|----------|---------------|
| (1,209) | 1:A:143:PHE:N | 1:A:143:PHE:CA | 1:A:143:PHE:C | 1:A:144:ASN:N | 20 | 4.8 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 3 | 2.8 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 2 | 2.7 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 17 | 2.7 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 10 | 2.6 |
| (1,107) | 1:A:158:PHE:C | 1:A:159:LEU:N | 1:A:159:LEU:CA | 1:A:159:LEU:C | 5 | 2.4 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 4 | 2.2 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 8 | 2.2 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 18 | 2.2 |
| (1,190) | 1:A:119:GLY:N | 1:A:119:GLY:CA | 1:A:119:GLY:C | 1:A:120:LEU:N | 5 | 2.2 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 5 | 2.1 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 14 | 2.1 |
| (1,85) | 1:A:128:LEU:C | 1:A:129:PHE:N | 1:A:129:PHE:CA | 1:A:129:PHE:C | 11 | 1.8 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 7 | 1.8 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|----------------|----------------|---------------|----------|---------------|
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 18 | 1.7 |
| (1,168) | 1:A:90:THR:N | 1:A:90:THR:CA | 1:A:90:THR:C | 1:A:91:GLN:N | 14 | 1.7 |
| (1,163) | 1:A:85:GLU:N | 1:A:85:GLU:CA | 1:A:85:GLU:C | 1:A:86:ARG:N | 11 | 1.6 |
| (1,1) | 1:A:22:HIS:C | 1:A:23:TRP:N | 1:A:23:TRP:CA | 1:A:23:TRP:C | 18 | 1.6 |
| (1,5) | 1:A:27:VAL:C | 1:A:28:LEU:N | 1:A:28:LEU:CA | 1:A:28:LEU:C | 18 | 1.5 |
| (1,47) | 1:A:81:PHE:C | 1:A:82:GLU:N | 1:A:82:GLU:CA | 1:A:82:GLU:C | 19 | 1.5 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 14 | 1.5 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 19 | 1.5 |
| (1,159) | 1:A:80:ALA:N | 1:A:80:ALA:CA | 1:A:80:ALA:C | 1:A:81:PHE:N | 1 | 1.5 |
| (1,135) | 1:A:47:ARG:N | 1:A:47:ARG:CA | 1:A:47:ARG:C | 1:A:48:ILE:N | 2 | 1.5 |
| (1,81) | 1:A:121:LYS:C | 1:A:122:PHE:N | 1:A:122:PHE:CA | 1:A:122:PHE:C | 2 | 1.4 |
| (1,40) | 1:A:74:ASN:C | 1:A:75:TYR:N | 1:A:75:TYR:CA | 1:A:75:TYR:C | 20 | 1.4 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 9 | 1.4 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 17 | 1.4 |
| (1,17) | 1:A:44:LYS:C | 1:A:45:VAL:N | 1:A:45:VAL:CA | 1:A:45:VAL:C | 19 | 1.4 |
| (1,168) | 1:A:90:THR:N | 1:A:90:THR:CA | 1:A:90:THR:C | 1:A:91:GLN:N | 16 | 1.4 |
| (1,163) | 1:A:85:GLU:N | 1:A:85:GLU:CA | 1:A:85:GLU:C | 1:A:86:ARG:N | 10 | 1.4 |
| (1,5) | 1:A:27:VAL:C | 1:A:28:LEU:N | 1:A:28:LEU:CA | 1:A:28:LEU:C | 20 | 1.3 |
| (1,47) | 1:A:81:PHE:C | 1:A:82:GLU:N | 1:A:82:GLU:CA | 1:A:82:GLU:C | 15 | 1.3 |
| (1,40) | 1:A:74:ASN:C | 1:A:75:TYR:N | 1:A:75:TYR:CA | 1:A:75:TYR:C | 13 | 1.3 |
| (1,225) | 1:A:168:ARG:N | 1:A:168:ARG:CA | 1:A:168:ARG:C | 1:A:169:PHE:N | 7 | 1.3 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 4 | 1.3 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 5 | 1.3 |
| (1,21) | 1:A:48:ILE:C | 1:A:49:TYR:N | 1:A:49:TYR:CA | 1:A:49:TYR:C | 20 | 1.3 |
| (1,167) | 1:A:89:VAL:N | 1:A:89:VAL:CA | 1:A:89:VAL:C | 1:A:90:THR:N | 17 | 1.3 |
| (1,219) | 1:A:161:GLY:N | 1:A:161:GLY:CA | 1:A:161:GLY:C | 1:A:162:THR:N | 5 | 1.2 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 6 | 1.2 |
| (1,2) | 1:A:24:LEU:C | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 12 | 1.2 |
| (1,123) | 1:A:30:GLU:N | 1:A:30:GLU:CA | 1:A:30:GLU:C | 1:A:31:ALA:N | 7 | 1.2 |
| (1,120) | 1:A:27:VAL:N | 1:A:27:VAL:CA | 1:A:27:VAL:C | 1:A:28:LEU:N | 15 | 1.2 |
| (1,51) | 1:A:85:GLU:C | 1:A:86:ARG:N | 1:A:86:ARG:CA | 1:A:86:ARG:C | 13 | 1.1 |
| (1,42) | 1:A:76:LYS:C | 1:A:77:ALA:N | 1:A:77:ALA:CA | 1:A:77:ALA:C | 17 | 1.1 |
| (1,42) | 1:A:76:LYS:C | 1:A:77:ALA:N | 1:A:77:ALA:CA | 1:A:77:ALA:C | 20 | 1.1 |
| (1,3) | 1:A:25:GLU:C | 1:A:26:PRO:N | 1:A:26:PRO:CA | 1:A:26:PRO:C | 11 | 1.1 |
| (1,190) | 1:A:119:GLY:N | 1:A:119:GLY:CA | 1:A:119:GLY:C | 1:A:120:LEU:N | 13 | 1.1 |
| (1,163) | 1:A:85:GLU:N | 1:A:85:GLU:CA | 1:A:85:GLU:C | 1:A:86:ARG:N | 2 | 1.1 |
| (1,159) | 1:A:80:ALA:N | 1:A:80:ALA:CA | 1:A:80:ALA:C | 1:A:81:PHE:N | 3 | 1.1 |
| (1,159) | 1:A:80:ALA:N | 1:A:80:ALA:CA | 1:A:80:ALA:C | 1:A:81:PHE:N | 4 | 1.1 |
| (1,159) | 1:A:80:ALA:N | 1:A:80:ALA:CA | 1:A:80:ALA:C | 1:A:81:PHE:N | 19 | 1.1 |
| (1,148) | 1:A:67:TYR:N | 1:A:67:TYR:CA | 1:A:67:TYR:C | 1:A:68:LYS:N | 14 | 1.1 |
| (1,140) | 1:A:53:ASN:N | 1:A:53:ASN:CA | 1:A:53:ASN:C | 1:A:54:THR:N | 11 | 1.1 |
| (1,135) | 1:A:47:ARG:N | 1:A:47:ARG:CA | 1:A:47:ARG:C | 1:A:48:ILE:N | 5 | 1.1 |
| (1,123) | 1:A:30:GLU:N | 1:A:30:GLU:CA | 1:A:30:GLU:C | 1:A:31:ALA:N | 17 | 1.1 |
| (1,121) | 1:A:28:LEU:N | 1:A:28:LEU:CA | 1:A:28:LEU:C | 1:A:29:CYS:N | 4 | 1.1 |
| (1,118) | 1:A:25:GLU:N | 1:A:25:GLU:CA | 1:A:25:GLU:C | 1:A:26:PRO:N | 18 | 1.1 |