



Full wwPDB NMR Structure Validation Report ⓘ

Jun 4, 2023 – 04:29 AM EDT

PDB ID : 2L6A
BMRB ID : 17305
Title : Three-dimensional structure of the N-terminal effector PYRIN domain of NLRP12
Authors : Pinheiro, A.S.; Peti, W.
Deposited on : 2010-11-17

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

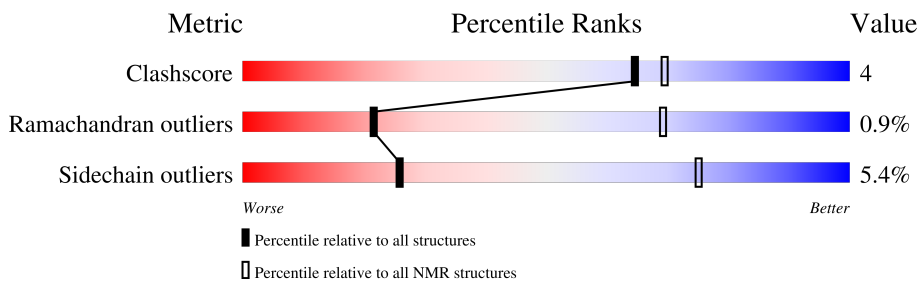
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 88%.

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 | 102 | |

2 Ensemble composition and analysis i

This entry contains 20 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

| Well-defined (core) protein residues | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:11-A:91 (81) | 0.64 | 5 |

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 4 clusters and 4 single-model clusters were found.

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

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1649 atoms, of which 826 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called NACHT, LRR and PYD domains-containing protein 12.

| Mol | Chain | Residues | Atoms | | | | | | Trace |
|-----|-------|----------|-------|-----|-----|-----|-----|---|-------|
| | | | Total | C | H | N | O | S | |
| 1 | A | 102 | 1649 | 520 | 826 | 145 | 154 | 4 | 0 |

There are 4 discrepancies between the modelled and reference sequences:

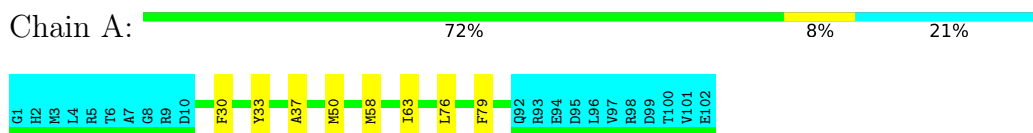
| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|----------------|------------|
| A | 1 | GLY | - | expression tag | UNP P59046 |
| A | 2 | HIS | - | expression tag | UNP P59046 |
| A | 101 | VAL | - | expression tag | UNP P59046 |
| A | 102 | GLU | - | expression tag | UNP P59046 |

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12

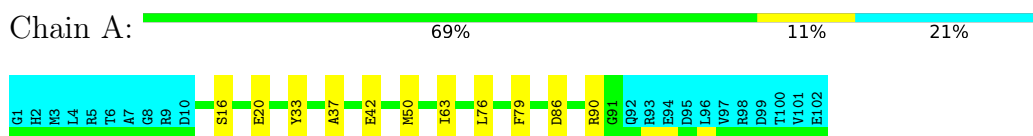


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

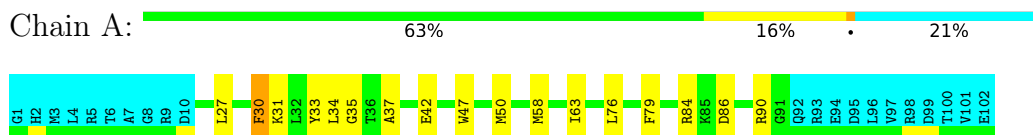
4.2.1 Score per residue for model 1

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



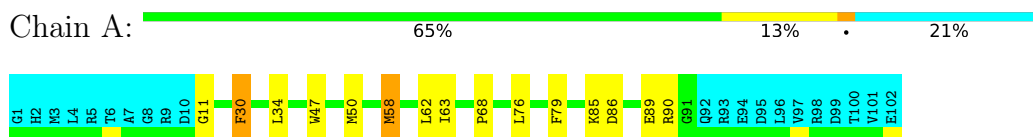
4.2.2 Score per residue for model 2

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



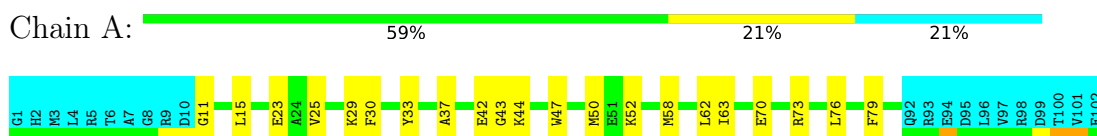
4.2.3 Score per residue for model 3

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



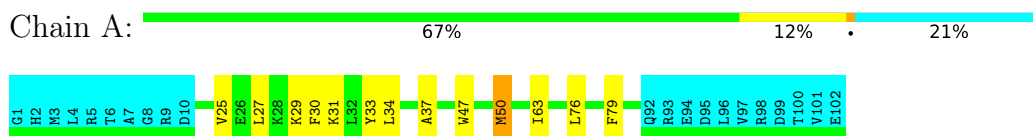
4.2.4 Score per residue for model 4

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



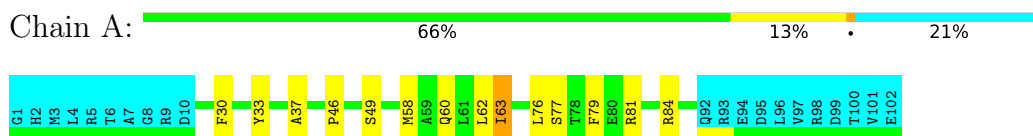
4.2.5 Score per residue for model 5 (medoid)

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



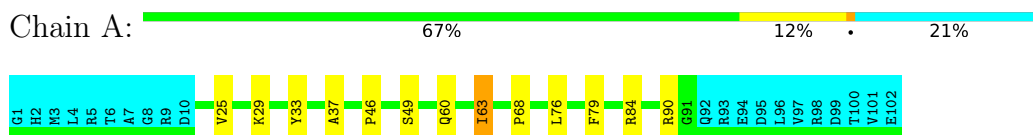
4.2.6 Score per residue for model 6

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



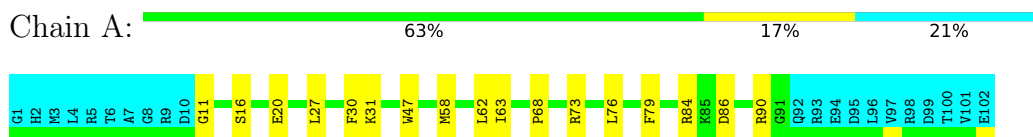
4.2.7 Score per residue for model 7

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



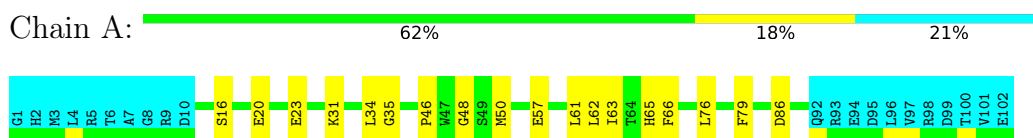
4.2.8 Score per residue for model 8

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



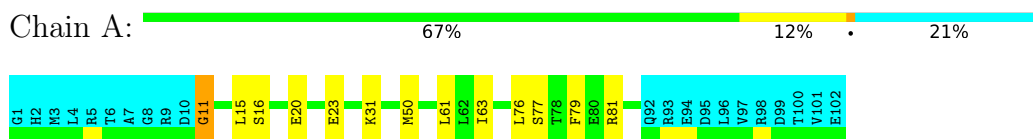
4.2.9 Score per residue for model 9

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



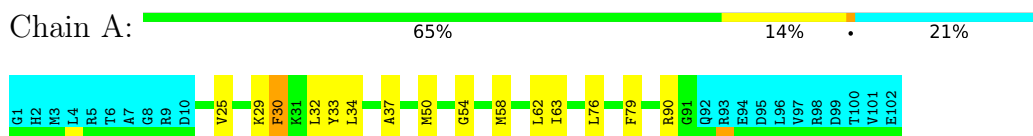
4.2.10 Score per residue for model 10

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



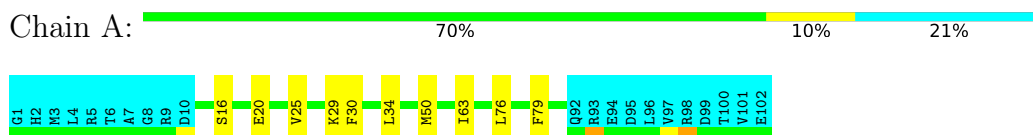
4.2.11 Score per residue for model 11

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



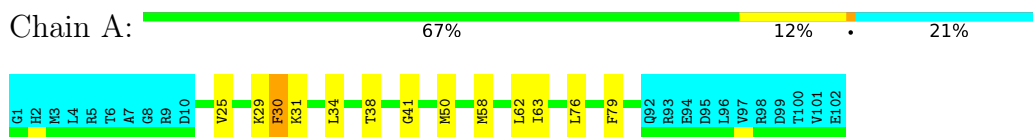
4.2.12 Score per residue for model 12

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



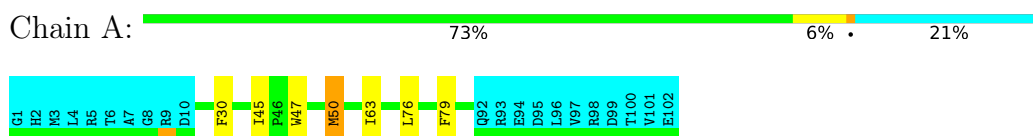
4.2.13 Score per residue for model 13

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



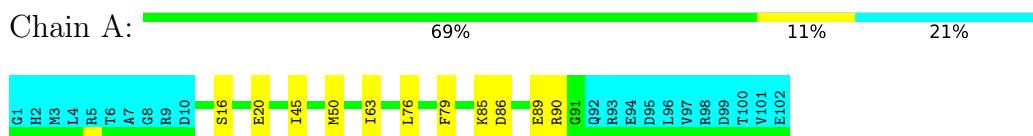
4.2.14 Score per residue for model 14

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



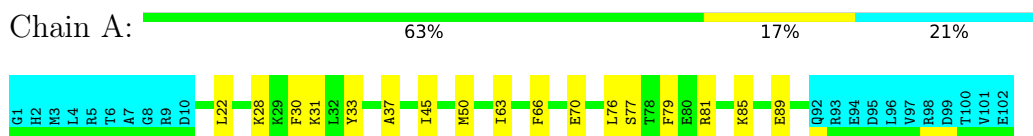
4.2.15 Score per residue for model 15

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



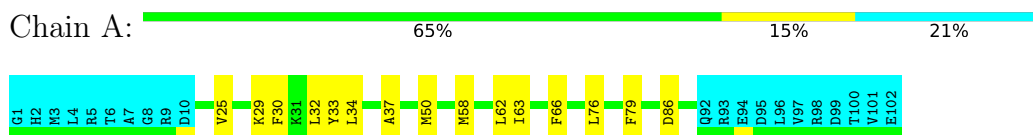
4.2.16 Score per residue for model 16

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



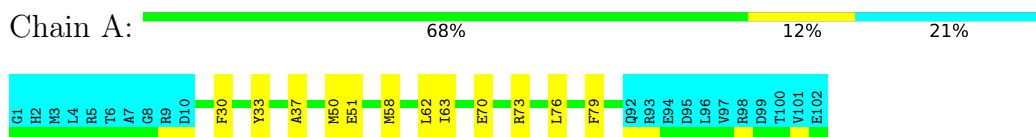
4.2.17 Score per residue for model 17

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



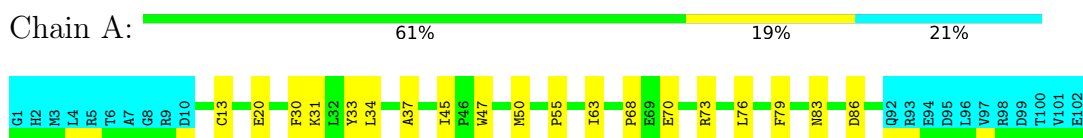
4.2.18 Score per residue for model 18

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



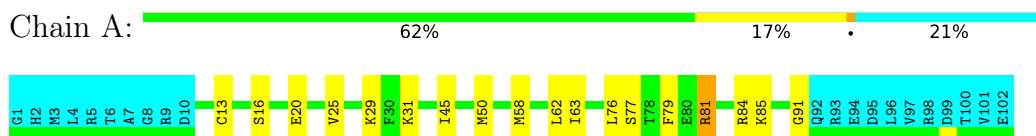
4.2.19 Score per residue for model 19

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



4.2.20 Score per residue for model 20

- Molecule 1: NACHT, LRR and PYD domains-containing protein 12



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 lowest energy*.

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

| Software name | Classification | Version |
|---------------|--------------------|---------|
| CYANA | structure solution | 2.1 |
| CNS | refinement | |

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

| | |
|--|----------------|
| Chemical shift file(s) | working_cs.cif |
| Number of chemical shift lists | 1 |
| Total number of shifts | 1204 |
| Number of shifts mapped to atoms | 1204 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 88% |

6 Model quality i

6.1 Standard geometry i

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

| Mol | Chain | Bond lengths | | Bond angles | |
|-----|-------|--------------|----------------------|-------------|----------------------|
| | | RMSZ | #Z>5 | RMSZ | #Z>5 |
| 1 | A | 0.70±0.03 | 0±0/667 (0.0± 0.0%) | 0.68±0.02 | 0±0/899 (0.0± 0.0%) |
| All | All | 0.70 | 1/13340 (0.0%) | 0.68 | 1/17980 (0.0%) |

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

| Mol | Chain | Chirality | Planarity |
|-----|-------|-----------|-----------|
| 1 | A | 0.0±0.0 | 0.1±0.4 |
| All | All | 0 | 3 |

All unique bond outliers are listed below.

| Mol | Chain | Res | Type | Atoms | Z | Observed(Å) | Ideal(Å) | Models | |
|-----|-------|-----|------|-------|-------|-------------|----------|--------|-------|
| | | | | | | | | Worst | Total |
| 1 | A | 43 | GLY | N-CA | -7.12 | 1.35 | 1.46 | 4 | 1 |

All unique angle outliers are listed below.

| Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°) | Models | |
|-----|-------|-----|------|--------|-------|-------------|----------|--------|-------|
| | | | | | | | | Worst | Total |
| 1 | A | 43 | GLY | N-CA-C | -5.50 | 99.34 | 113.10 | 4 | 1 |

There are no chirality outliers.

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

| Mol | Chain | Res | Type | Group | Models (Total) |
|-----|-------|-----|------|-----------|----------------|
| 1 | A | 73 | ARG | Sidechain | 2 |
| 1 | A | 81 | ARG | Sidechain | 1 |

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 | 652 | 659 | 659 | 6±1 |
| All | All | 13040 | 13180 | 13180 | 111 |

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 4.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:50:MET:SD | 1:A:61:LEU:HD13 | 0.61 | 2.35 | 10 | 1 |
| 1:A:33:TYR:O | 1:A:37:ALA:HB2 | 0.59 | 1.97 | 5 | 11 |
| 1:A:86:ASP:O | 1:A:90:ARG:HD3 | 0.59 | 1.96 | 15 | 2 |
| 1:A:76:LEU:HA | 1:A:79:PHE:CD2 | 0.55 | 2.36 | 4 | 20 |
| 1:A:11:GLY:O | 1:A:15:LEU:HG | 0.54 | 2.02 | 10 | 2 |
| 1:A:58:MET:O | 1:A:62:LEU:HD22 | 0.52 | 2.03 | 6 | 2 |
| 1:A:25:VAL:O | 1:A:29:LYS:HG3 | 0.52 | 2.05 | 5 | 8 |
| 1:A:77:SER:O | 1:A:81:ARG:HG2 | 0.52 | 2.05 | 6 | 3 |
| 1:A:27:LEU:O | 1:A:31:LYS:HG3 | 0.52 | 2.05 | 2 | 1 |
| 1:A:31:LYS:HB2 | 1:A:50:MET:SD | 0.51 | 2.45 | 20 | 2 |
| 1:A:16:SER:O | 1:A:20:GLU:HG3 | 0.51 | 2.06 | 20 | 7 |
| 1:A:30:PHE:O | 1:A:34:LEU:HG | 0.50 | 2.06 | 12 | 6 |
| 1:A:45:ILE:HG21 | 1:A:50:MET:HG3 | 0.50 | 1.83 | 14 | 2 |
| 1:A:34:LEU:HD12 | 1:A:35:GLY:N | 0.49 | 2.23 | 9 | 2 |
| 1:A:77:SER:O | 1:A:81:ARG:HD3 | 0.49 | 2.07 | 20 | 1 |
| 1:A:58:MET:O | 1:A:62:LEU:HD13 | 0.49 | 2.08 | 13 | 6 |
| 1:A:38:THR:HA | 1:A:41:GLY:O | 0.48 | 2.08 | 13 | 1 |
| 1:A:30:PHE:CE1 | 1:A:34:LEU:HD21 | 0.47 | 2.44 | 2 | 2 |
| 1:A:57:GLU:O | 1:A:61:LEU:HB2 | 0.47 | 2.10 | 9 | 1 |
| 1:A:29:LYS:O | 1:A:32:LEU:HG | 0.47 | 2.10 | 17 | 2 |
| 1:A:45:ILE:HG21 | 1:A:50:MET:SD | 0.47 | 2.50 | 16 | 2 |
| 1:A:86:ASP:O | 1:A:90:ARG:HG3 | 0.46 | 2.11 | 3 | 2 |
| 1:A:60:GLN:O | 1:A:63:ILE:HG22 | 0.46 | 2.09 | 6 | 2 |
| 1:A:20:GLU:OE2 | 1:A:55:PRO:HB2 | 0.45 | 2.12 | 19 | 1 |
| 1:A:85:LYS:O | 1:A:89:GLU:HG3 | 0.45 | 2.12 | 15 | 2 |
| 1:A:70:GLU:OE1 | 1:A:70:GLU:HA | 0.45 | 2.12 | 18 | 1 |
| 1:A:85:LYS:O | 1:A:89:GLU:HG2 | 0.44 | 2.11 | 16 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:70:GLU:OE2 | 1:A:73:ARG:HD3 | 0.44 | 2.13 | 4 | 2 |
| 1:A:22:LEU:HD11 | 1:A:79:PHE:CE1 | 0.44 | 2.47 | 16 | 1 |
| 1:A:62:LEU:HD12 | 1:A:66:PHE:CE1 | 0.43 | 2.48 | 17 | 2 |
| 1:A:45:ILE:HG21 | 1:A:50:MET:CG | 0.43 | 2.43 | 20 | 1 |
| 1:A:11:GLY:HA3 | 1:A:68:PRO:O | 0.43 | 2.14 | 8 | 2 |
| 1:A:90:ARG:HA | 1:A:90:ARG:NE | 0.43 | 2.29 | 7 | 1 |
| 1:A:27:LEU:O | 1:A:31:LYS:HG2 | 0.42 | 2.14 | 8 | 2 |
| 1:A:31:LYS:HD2 | 1:A:50:MET:SD | 0.42 | 2.54 | 5 | 1 |
| 1:A:46:PRO:HG2 | 1:A:49:SER:OG | 0.42 | 2.15 | 7 | 1 |
| 1:A:86:ASP:O | 1:A:90:ARG:HG2 | 0.42 | 2.15 | 8 | 1 |
| 1:A:46:PRO:HG2 | 1:A:49:SER:HB2 | 0.41 | 1.91 | 6 | 1 |
| 1:A:54:GLY:O | 1:A:58:MET:HG2 | 0.41 | 2.15 | 11 | 1 |
| 1:A:66:PHE:HB3 | 1:A:70:GLU:CG | 0.40 | 2.45 | 16 | 1 |
| 1:A:46:PRO:HD3 | 1:A:65:HIS:CE1 | 0.40 | 2.51 | 9 | 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 | 81/102 (79%) | 72±2 (89±2%) | 8±2 (10±2%) | 1±1 (1±1%) | 21 | 69 |
| All | All | 1620/2040 (79%) | 1445 (89%) | 161 (10%) | 14 (1%) | 21 | 69 |

All 7 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 | 47 | TRP | 7 |
| 1 | A | 68 | PRO | 2 |
| 1 | A | 48 | GLY | 1 |
| 1 | A | 11 | GLY | 1 |
| 1 | A | 45 | ILE | 1 |
| 1 | A | 13 | CYS | 1 |
| 1 | A | 91 | GLY | 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 | 67/85 (79%) | 63±1 (95±2%) | 4±1 (5±2%) | 26 75 |
| All | All | 1340/1700 (79%) | 1268 (95%) | 72 (5%) | 26 75 |

All 16 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 63 | ILE | 20 |
| 1 | A | 50 | MET | 13 |
| 1 | A | 30 | PHE | 11 |
| 1 | A | 84 | ARG | 5 |
| 1 | A | 31 | LYS | 4 |
| 1 | A | 42 | GLU | 3 |
| 1 | A | 58 | MET | 3 |
| 1 | A | 23 | GLU | 3 |
| 1 | A | 86 | ASP | 3 |
| 1 | A | 44 | LYS | 1 |
| 1 | A | 52 | LYS | 1 |
| 1 | A | 28 | LYS | 1 |
| 1 | A | 34 | LEU | 1 |
| 1 | A | 51 | GLU | 1 |
| 1 | A | 83 | ASN | 1 |
| 1 | A | 85 | LYS | 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 88% for the well-defined parts and 84% 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 | 1204 |
| Number of shifts mapped to atoms | 1204 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 2 |

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction \pm precision, ppm | Suggested action |
|------------------------|----------|---------------------------------|----------------------------|
| $^{13}\text{C}_\alpha$ | 100 | -0.59 ± 0.12 | Should be checked |
| $^{13}\text{C}_\beta$ | 90 | 0.32 ± 0.10 | None needed (< 0.5 ppm) |
| $^{13}\text{C}'$ | 87 | 2.05 ± 0.13 | Should be applied |
| ^{15}N | 96 | 0.24 ± 0.36 | 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 88%, i.e. 1000 atoms were assigned a chemical shift out of a possible 1142. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ^1H | ^{13}C | ^{15}N |
|-----------|---------------|---------------|-----------------|-----------------|
| Backbone | 400/407 (98%) | 166/167 (99%) | 156/162 (96%) | 78/78 (100%) |
| Sidechain | 555/644 (86%) | 377/419 (90%) | 176/202 (87%) | 2/23 (9%) |

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| | Total | ¹ H | ¹³ C | ¹⁵ N |
|----------|-----------------|----------------|-----------------|-----------------|
| Aromatic | 45/91 (49%) | 42/45 (93%) | 0/42 (0%) | 3/4 (75%) |
| Overall | 1000/1142 (88%) | 585/631 (93%) | 332/406 (82%) | 83/105 (79%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 1204 atoms were assigned a chemical shift out of a possible 1439. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ¹ H | ¹³ C | ¹⁵ N |
|-----------|-----------------|----------------|-----------------|-----------------|
| Backbone | 485/514 (94%) | 202/211 (96%) | 187/204 (92%) | 96/99 (97%) |
| Sidechain | 674/827 (81%) | 456/535 (85%) | 215/256 (84%) | 3/36 (8%) |
| Aromatic | 45/98 (46%) | 42/49 (86%) | 0/44 (0%) | 3/5 (60%) |
| Overall | 1204/1439 (84%) | 700/795 (88%) | 402/504 (80%) | 102/140 (73%) |

7.1.4 Statistically unusual chemical shifts [i](#)

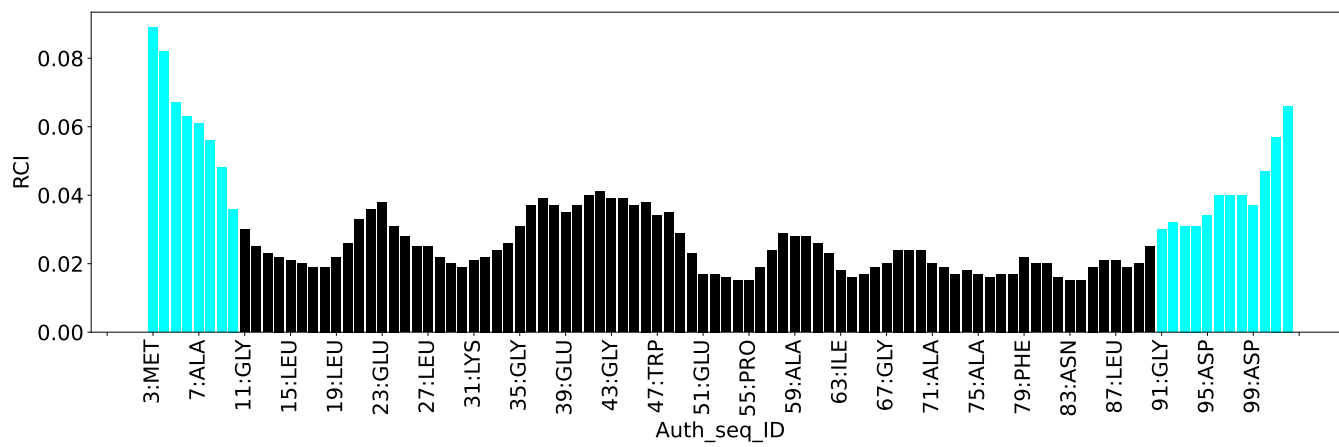
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, ppm | Expected range, ppm | Z-score |
|---------|-------|-----|------|------|------------|---------------------|---------|
| 1 | A | 102 | GLU | C | 129.54 | 167.55 – 186.36 | -25.2 |
| 1 | A | 102 | GLU | N | 181.03 | 103.74 – 137.78 | 17.7 |

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 | 1842 |
| Intra-residue ($ i-j =0$) | 490 |
| Sequential ($ i-j =1$) | 450 |
| Medium range ($ i-j >1$ and $ i-j <5$) | 464 |
| Long range ($ i-j \geq 5$) | 438 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 0 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 0 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 18.1 |
| Number of long range restraints per residue ¹ | 4.3 |

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) | 19.2 | 0.2 |
| 0.2-0.5 (Medium) | 28.1 | 0.5 |
| >0.5 (Large) | 45.0 | 7.61 |

8.2.2 Average number of dihedral-angle violations per model

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

9 Distance violation analysis i

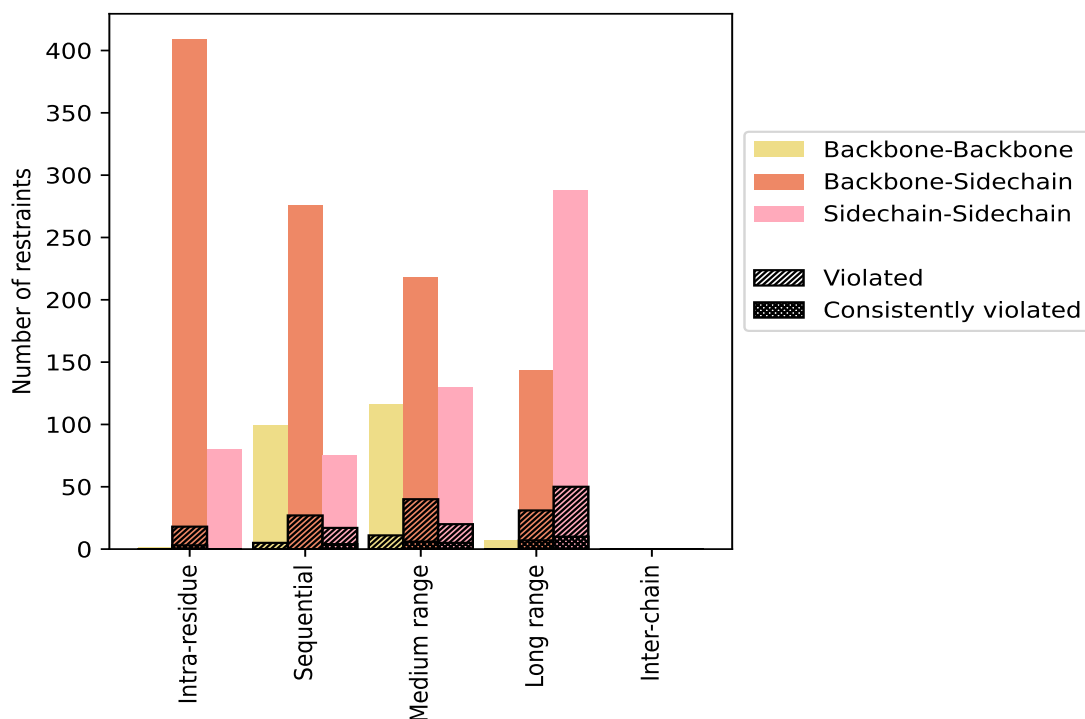
9.1 Summary of distance violations i

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 ($i-j =0$) | 490 | 26.6 | 18 | 3.7 | 1.0 | 3 | 0.6 | 0.2 |
| Backbone-Backbone | 1 | 0.1 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 409 | 22.2 | 18 | 4.4 | 1.0 | 3 | 0.7 | 0.2 |
| Sidechain-Sidechain | 80 | 4.3 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sequential ($i-j =1$) | 450 | 24.4 | 49 | 10.9 | 2.7 | 4 | 0.9 | 0.2 |
| Backbone-Backbone | 99 | 5.4 | 5 | 5.1 | 0.3 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 276 | 15.0 | 27 | 9.8 | 1.5 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 75 | 4.1 | 17 | 22.7 | 0.9 | 4 | 5.3 | 0.2 |
| Medium range ($i-j >1$ & $i-j <5$) | 464 | 25.2 | 71 | 15.3 | 3.9 | 11 | 2.4 | 0.6 |
| Backbone-Backbone | 116 | 6.3 | 11 | 9.5 | 0.6 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 218 | 11.8 | 40 | 18.3 | 2.2 | 6 | 2.8 | 0.3 |
| Sidechain-Sidechain | 130 | 7.1 | 20 | 15.4 | 1.1 | 5 | 3.8 | 0.3 |
| Long range ($i-j \geq 5$) | 438 | 23.8 | 81 | 18.5 | 4.4 | 17 | 3.9 | 0.9 |
| Backbone-Backbone | 7 | 0.4 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 143 | 7.8 | 31 | 21.7 | 1.7 | 7 | 4.9 | 0.4 |
| Sidechain-Sidechain | 288 | 15.6 | 50 | 17.4 | 2.7 | 10 | 3.5 | 0.5 |
| 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 | 1842 | 100.0 | 219 | 11.9 | 11.9 | 35 | 1.9 | 1.9 |
| Backbone-Backbone | 223 | 12.1 | 16 | 7.2 | 0.9 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 1046 | 56.8 | 116 | 11.1 | 6.3 | 16 | 1.5 | 0.9 |
| Sidechain-Sidechain | 573 | 31.1 | 87 | 15.2 | 4.7 | 19 | 3.3 | 1.0 |

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

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



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

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

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

| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | Total | | | | |
| 1 | 6 | 18 | 36 | 40 | 0 | 100 | 1.04 | 7.54 | 1.45 | 0.48 |
| 2 | 7 | 12 | 30 | 36 | 0 | 85 | 1.11 | 6.41 | 1.46 | 0.52 |
| 3 | 6 | 15 | 32 | 44 | 0 | 97 | 0.83 | 3.77 | 0.84 | 0.47 |
| 4 | 6 | 14 | 34 | 36 | 0 | 90 | 0.8 | 3.19 | 0.82 | 0.46 |
| 5 | 6 | 18 | 33 | 35 | 0 | 92 | 1.13 | 6.26 | 1.52 | 0.44 |
| 6 | 6 | 21 | 33 | 34 | 0 | 94 | 0.81 | 6.81 | 0.98 | 0.48 |
| 7 | 5 | 22 | 33 | 37 | 0 | 97 | 1.15 | 6.91 | 1.58 | 0.5 |
| 8 | 4 | 19 | 32 | 36 | 0 | 91 | 1.01 | 6.54 | 1.34 | 0.39 |
| 9 | 6 | 11 | 37 | 36 | 0 | 90 | 1.15 | 6.45 | 1.63 | 0.5 |
| 10 | 7 | 21 | 35 | 34 | 0 | 97 | 0.83 | 7.61 | 1.08 | 0.47 |
| 11 | 6 | 14 | 31 | 32 | 0 | 83 | 1.03 | 6.41 | 1.2 | 0.55 |

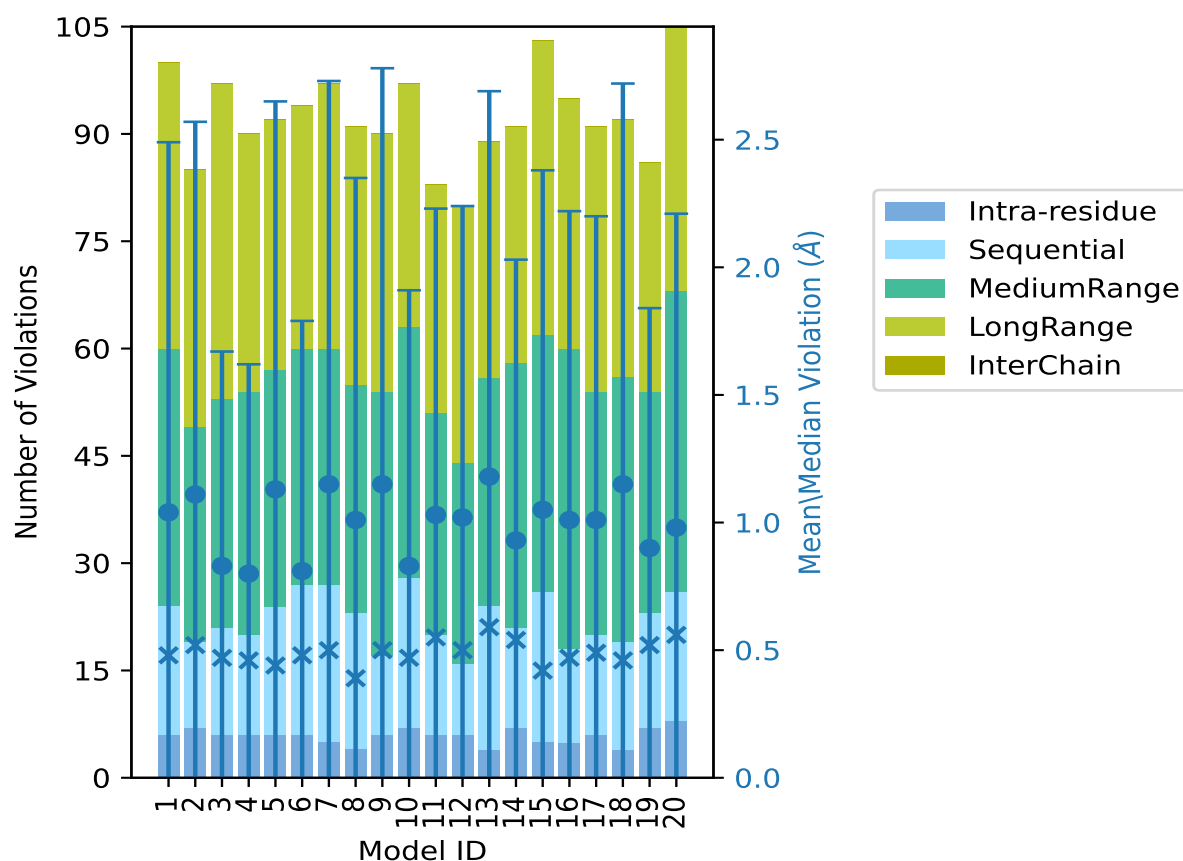
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| Model ID | Number of violations | | | | | Total | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | | | | | |
| 12 | 6 | 10 | 28 | 36 | 0 | 80 | 1.02 | 4.99 | 1.22 | 0.5 |
| 13 | 4 | 20 | 32 | 33 | 0 | 89 | 1.18 | 6.61 | 1.51 | 0.59 |
| 14 | 7 | 14 | 37 | 33 | 0 | 91 | 0.93 | 5.73 | 1.1 | 0.54 |
| 15 | 5 | 21 | 36 | 41 | 0 | 103 | 1.05 | 6.29 | 1.33 | 0.42 |
| 16 | 5 | 13 | 42 | 35 | 0 | 95 | 1.01 | 5.07 | 1.21 | 0.47 |
| 17 | 6 | 14 | 34 | 37 | 0 | 91 | 1.01 | 5.41 | 1.19 | 0.49 |
| 18 | 4 | 15 | 37 | 36 | 0 | 92 | 1.15 | 6.64 | 1.57 | 0.46 |
| 19 | 7 | 16 | 31 | 32 | 0 | 86 | 0.9 | 4.06 | 0.94 | 0.52 |
| 20 | 8 | 18 | 42 | 37 | 0 | 105 | 0.98 | 6.36 | 1.23 | 0.56 |

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

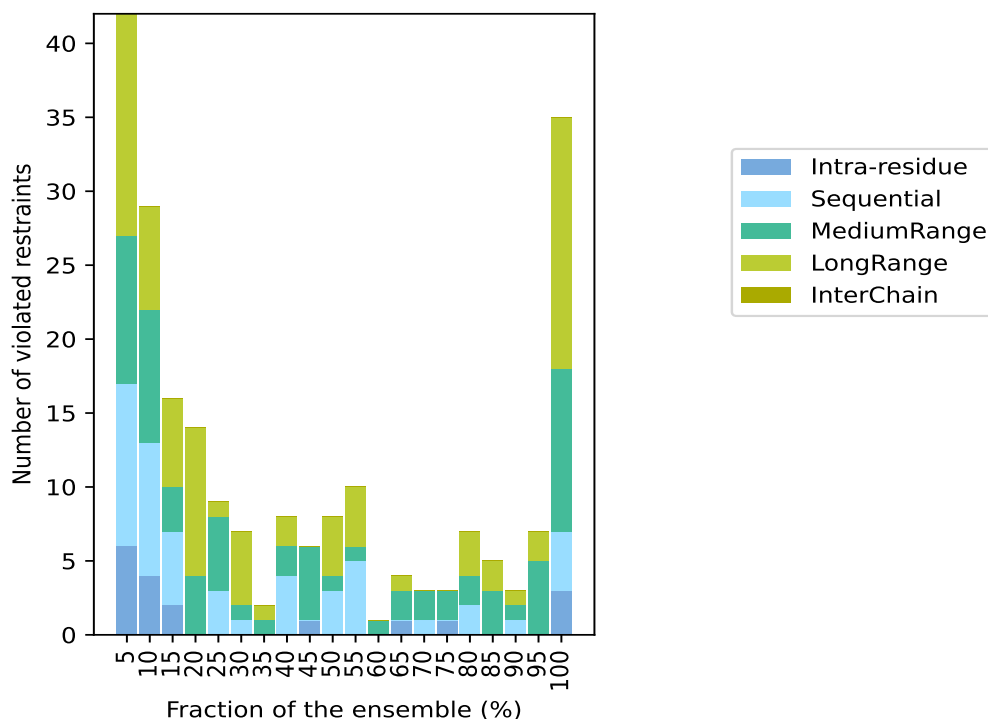
9.3 Distance violation statistics for the ensemble

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, 1623(IR:472, SQ:401, MR:393, LR:357, 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 | % |
| 6 | 11 | 10 | 15 | 0 | 42 | 1 | 5.0 |
| 4 | 9 | 9 | 7 | 0 | 29 | 2 | 10.0 |
| 2 | 5 | 3 | 6 | 0 | 16 | 3 | 15.0 |
| 0 | 0 | 4 | 10 | 0 | 14 | 4 | 20.0 |
| 0 | 3 | 5 | 1 | 0 | 9 | 5 | 25.0 |
| 0 | 1 | 1 | 5 | 0 | 7 | 6 | 30.0 |
| 0 | 0 | 1 | 1 | 0 | 2 | 7 | 35.0 |
| 0 | 4 | 2 | 2 | 0 | 8 | 8 | 40.0 |
| 1 | 0 | 5 | 0 | 0 | 6 | 9 | 45.0 |
| 0 | 3 | 1 | 4 | 0 | 8 | 10 | 50.0 |
| 0 | 5 | 1 | 4 | 0 | 10 | 11 | 55.0 |
| 0 | 0 | 1 | 0 | 0 | 1 | 12 | 60.0 |
| 1 | 0 | 2 | 1 | 0 | 4 | 13 | 65.0 |
| 0 | 1 | 2 | 0 | 0 | 3 | 14 | 70.0 |
| 1 | 0 | 2 | 0 | 0 | 3 | 15 | 75.0 |
| 0 | 2 | 2 | 3 | 0 | 7 | 16 | 80.0 |
| 0 | 0 | 3 | 2 | 0 | 5 | 17 | 85.0 |
| 0 | 1 | 1 | 1 | 0 | 3 | 18 | 90.0 |
| 0 | 0 | 5 | 2 | 0 | 7 | 19 | 95.0 |
| 3 | 4 | 11 | 17 | 0 | 35 | 20 | 100.0 |

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

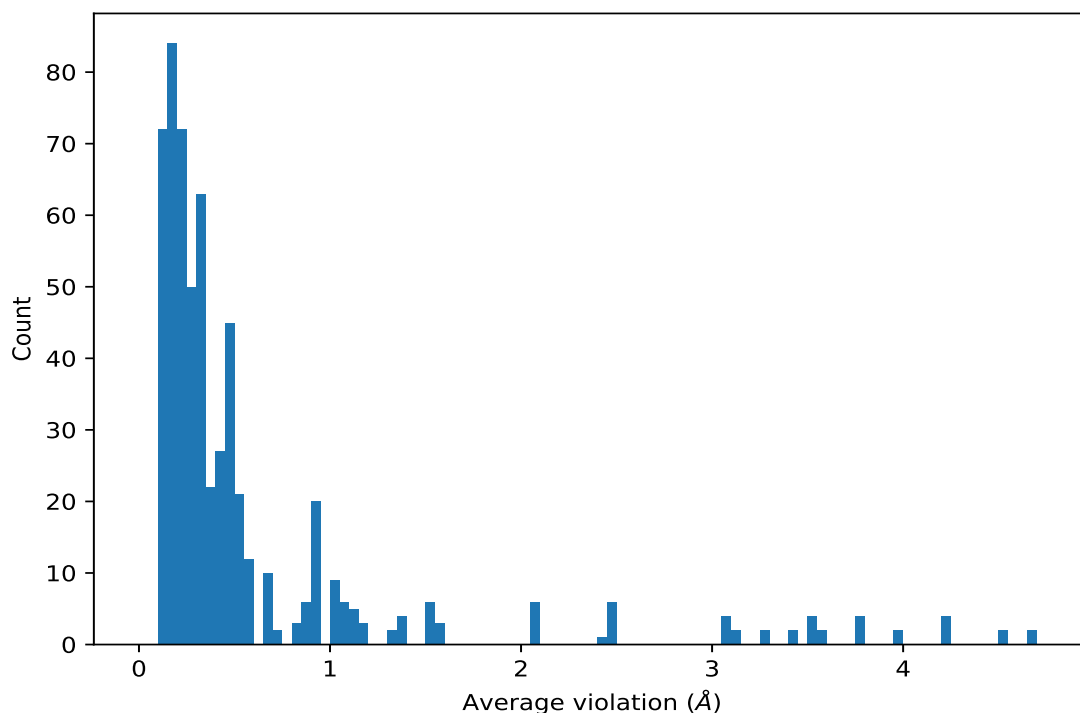
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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) |
|----------|----------------|----------------|---------------------|----------|---------------------|------------|
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 20 | 4.66 | 1.32 | 4.81 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 20 | 4.66 | 1.32 | 4.81 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 20 | 4.52 | 2.4 | 6.0 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 20 | 4.52 | 2.4 | 6.0 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 20 | 4.24 | 1.38 | 4.48 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 20 | 4.24 | 1.38 | 4.48 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 20 | 4.24 | 1.38 | 4.48 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 20 | 4.24 | 1.38 | 4.48 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 20 | 3.97 | 0.95 | 4.12 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 20 | 3.97 | 0.95 | 4.12 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 20 | 3.76 | 1.09 | 4.0 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 20 | 3.76 | 1.09 | 4.0 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 20 | 3.75 | 1.55 | 3.99 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 20 | 3.75 | 1.55 | 3.99 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 20 | 3.58 | 1.35 | 3.62 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 20 | 3.58 | 1.35 | 3.62 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 20 | 3.52 | 0.91 | 3.66 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 20 | 3.52 | 0.91 | 3.66 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 20 | 3.52 | 0.91 | 3.66 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 20 | 3.52 | 0.91 | 3.66 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 20 | 3.41 | 1.77 | 4.35 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 20 | 3.41 | 1.77 | 4.35 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 20 | 3.13 | 1.09 | 2.97 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 20 | 3.13 | 1.09 | 2.97 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 20 | 2.47 | 0.61 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 20 | 2.47 | 0.61 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 20 | 2.47 | 0.61 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 20 | 2.47 | 0.61 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 20 | 2.47 | 0.61 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 20 | 2.47 | 0.61 | 2.5 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 20 | 2.09 | 0.52 | 2.04 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 20 | 2.09 | 0.52 | 2.04 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 20 | 2.09 | 0.52 | 2.04 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 20 | 2.09 | 0.52 | 2.04 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 20 | 2.09 | 0.52 | 2.04 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 20 | 2.09 | 0.52 | 2.04 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 20 | 1.56 | 0.03 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 20 | 1.56 | 0.03 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 20 | 1.56 | 0.03 | 1.56 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 20 | 1.54 | 0.57 | 1.62 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 20 | 1.54 | 0.57 | 1.62 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 20 | 1.38 | 0.47 | 1.29 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 20 | 1.31 | 0.39 | 1.2 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 20 | 1.31 | 0.39 | 1.2 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 20 | 1.12 | 0.06 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 20 | 1.12 | 0.06 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 20 | 1.12 | 0.06 | 1.13 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 20 | 1.05 | 0.05 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 20 | 1.05 | 0.05 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 20 | 1.05 | 0.05 | 1.06 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 20 | 0.95 | 0.28 | 0.87 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 20 | 0.95 | 0.28 | 0.87 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 20 | 0.95 | 0.28 | 0.87 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 20 | 0.92 | 0.23 | 1.0 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 20 | 0.92 | 0.23 | 1.0 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 20 | 0.92 | 0.23 | 1.0 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 20 | 0.92 | 0.03 | 0.91 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 20 | 0.91 | 0.34 | 0.88 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 20 | 0.91 | 0.34 | 0.88 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 20 | 0.86 | 0.28 | 0.84 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 20 | 0.86 | 0.28 | 0.84 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 20 | 0.86 | 0.28 | 0.84 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 20 | 0.86 | 0.28 | 0.84 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 20 | 0.86 | 0.28 | 0.84 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 20 | 0.86 | 0.28 | 0.84 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 20 | 0.73 | 0.12 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 20 | 0.73 | 0.12 | 0.78 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 20 | 0.65 | 0.26 | 0.61 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 20 | 0.65 | 0.23 | 0.58 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 20 | 0.59 | 0.16 | 0.62 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 20 | 0.59 | 0.16 | 0.62 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 20 | 0.49 | 0.22 | 0.39 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 20 | 0.46 | 0.09 | 0.46 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 20 | 0.42 | 0.1 | 0.38 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 20 | 0.42 | 0.1 | 0.38 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 20 | 0.42 | 0.1 | 0.38 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 20 | 0.41 | 0.13 | 0.45 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 20 | 0.4 | 0.1 | 0.44 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 20 | 0.4 | 0.1 | 0.44 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 20 | 0.4 | 0.1 | 0.44 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 20 | 0.36 | 0.09 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 20 | 0.32 | 0.02 | 0.32 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 20 | 0.32 | 0.02 | 0.32 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 20 | 0.32 | 0.02 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 20 | 0.16 | 0.01 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 20 | 0.16 | 0.01 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 20 | 0.16 | 0.01 | 0.16 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 19 | 3.25 | 0.99 | 3.15 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 19 | 3.25 | 0.99 | 3.15 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 19 | 3.07 | 0.83 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 19 | 3.07 | 0.83 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 19 | 3.07 | 0.83 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 19 | 3.07 | 0.83 | 2.94 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 19 | 0.58 | 0.11 | 0.65 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 19 | 0.58 | 0.11 | 0.65 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 19 | 0.58 | 0.11 | 0.65 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 19 | 0.47 | 0.12 | 0.47 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 19 | 0.37 | 0.16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 19 | 0.37 | 0.16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 19 | 0.37 | 0.16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 19 | 0.37 | 0.16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 19 | 0.37 | 0.16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 19 | 0.37 | 0.16 | 0.31 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 19 | 0.29 | 0.08 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 19 | 0.24 | 0.04 | 0.24 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 19 | 0.24 | 0.04 | 0.24 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 19 | 0.24 | 0.04 | 0.24 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 18 | 1.11 | 0.41 | 1.2 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 18 | 1.11 | 0.41 | 1.2 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 18 | 1.02 | 0.57 | 0.85 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 18 | 1.02 | 0.57 | 0.85 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 18 | 1.02 | 0.57 | 0.85 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 18 | 0.53 | 0.16 | 0.62 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 17 | 2.44 | 1.05 | 2.26 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 17 | 0.56 | 0.2 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 17 | 0.56 | 0.2 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 17 | 0.56 | 0.2 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 17 | 0.56 | 0.2 | 0.59 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 17 | 0.49 | 0.13 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 17 | 0.49 | 0.13 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 17 | 0.49 | 0.13 | 0.55 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 17 | 0.19 | 0.05 | 0.19 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 17 | 0.19 | 0.05 | 0.19 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 17 | 0.19 | 0.05 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 17 | 0.18 | 0.04 | 0.19 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 17 | 0.18 | 0.04 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 17 | 0.18 | 0.04 | 0.19 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 16 | 1.06 | 0.76 | 0.7 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 16 | 0.93 | 0.41 | 0.85 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 16 | 0.93 | 0.41 | 0.85 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 16 | 0.56 | 0.21 | 0.57 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 16 | 0.48 | 0.13 | 0.54 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 16 | 0.48 | 0.13 | 0.54 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 16 | 0.48 | 0.13 | 0.54 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 16 | 0.48 | 0.13 | 0.54 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 16 | 0.48 | 0.13 | 0.54 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 16 | 0.48 | 0.13 | 0.54 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 16 | 0.34 | 0.16 | 0.32 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 16 | 0.34 | 0.16 | 0.32 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 16 | 0.34 | 0.16 | 0.32 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 16 | 0.33 | 0.13 | 0.33 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 16 | 0.27 | 0.07 | 0.29 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 16 | 0.27 | 0.07 | 0.29 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 16 | 0.27 | 0.07 | 0.29 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 15 | 0.93 | 0.44 | 0.99 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 15 | 0.93 | 0.44 | 0.99 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 15 | 0.93 | 0.44 | 0.99 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 15 | 0.2 | 0.06 | 0.19 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 15 | 0.13 | 0.02 | 0.13 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 14 | 1.08 | 0.58 | 1.14 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 14 | 0.53 | 0.17 | 0.48 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 14 | 0.21 | 0.06 | 0.22 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 14 | 0.21 | 0.06 | 0.22 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 13 | 1.35 | 0.62 | 1.47 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 13 | 1.35 | 0.62 | 1.47 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 13 | 1.35 | 0.62 | 1.47 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 13 | 0.51 | 0.15 | 0.48 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 13 | 0.51 | 0.15 | 0.48 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 13 | 0.48 | 0.26 | 0.39 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 13 | 0.21 | 0.08 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 13 | 0.21 | 0.08 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 13 | 0.21 | 0.08 | 0.2 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 12 | 1.52 | 0.81 | 1.58 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 12 | 1.52 | 0.81 | 1.58 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 12 | 1.52 | 0.81 | 1.58 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 12 | 1.52 | 0.81 | 1.58 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 11 | 0.95 | 0.36 | 0.86 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 11 | 0.95 | 0.36 | 0.86 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 11 | 0.95 | 0.36 | 0.86 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 11 | 0.57 | 0.1 | 0.55 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 11 | 0.47 | 0.11 | 0.5 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 11 | 0.34 | 0.24 | 0.2 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 11 | 0.31 | 0.04 | 0.33 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 11 | 0.29 | 0.12 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 11 | 0.29 | 0.12 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 11 | 0.29 | 0.12 | 0.25 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 11 | 0.23 | 0.07 | 0.2 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 11 | 0.23 | 0.07 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 11 | 0.21 | 0.03 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 11 | 0.21 | 0.03 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 11 | 0.21 | 0.03 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 11 | 0.21 | 0.03 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 11 | 0.21 | 0.03 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 11 | 0.21 | 0.03 | 0.21 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 11 | 0.18 | 0.01 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 11 | 0.18 | 0.01 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 11 | 0.18 | 0.01 | 0.18 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 11 | 0.13 | 0.01 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 11 | 0.13 | 0.01 | 0.12 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 10 | 1.17 | 0.32 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 10 | 1.17 | 0.32 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 10 | 1.17 | 0.32 | 1.02 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 10 | 0.49 | 0.33 | 0.35 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 10 | 0.49 | 0.33 | 0.35 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 10 | 0.49 | 0.33 | 0.35 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 10 | 0.49 | 0.33 | 0.35 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 10 | 0.48 | 0.36 | 0.26 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 10 | 0.34 | 0.11 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 10 | 0.31 | 0.11 | 0.32 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 10 | 0.29 | 0.18 | 0.22 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 10 | 0.29 | 0.14 | 0.25 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 10 | 0.2 | 0.05 | 0.2 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 10 | 0.2 | 0.05 | 0.2 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 10 | 0.2 | 0.05 | 0.2 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 9 | 0.59 | 0.11 | 0.62 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 9 | 0.48 | 0.2 | 0.47 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 9 | 0.3 | 0.2 | 0.21 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 9 | 0.3 | 0.2 | 0.21 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 9 | 0.26 | 0.06 | 0.3 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 9 | 0.26 | 0.06 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 9 | 0.26 | 0.06 | 0.3 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 9 | 0.22 | 0.08 | 0.21 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 9 | 0.2 | 0.04 | 0.22 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 8 | 0.69 | 0.35 | 0.69 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 8 | 0.69 | 0.35 | 0.69 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 8 | 0.69 | 0.35 | 0.69 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 8 | 0.52 | 0.25 | 0.45 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 8 | 0.52 | 0.25 | 0.45 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 8 | 0.41 | 0.16 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 8 | 0.41 | 0.16 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 8 | 0.41 | 0.16 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 8 | 0.41 | 0.16 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 8 | 0.41 | 0.16 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 8 | 0.41 | 0.16 | 0.39 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 8 | 0.38 | 0.1 | 0.42 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 8 | 0.32 | 0.12 | 0.36 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 8 | 0.32 | 0.12 | 0.36 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 8 | 0.2 | 0.06 | 0.18 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 8 | 0.15 | 0.03 | 0.15 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 8 | 0.15 | 0.03 | 0.15 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 8 | 0.15 | 0.03 | 0.15 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 8 | 0.15 | 0.03 | 0.15 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 8 | 0.15 | 0.03 | 0.15 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 8 | 0.15 | 0.03 | 0.15 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 8 | 0.14 | 0.03 | 0.13 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 7 | 0.22 | 0.09 | 0.19 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 7 | 0.22 | 0.09 | 0.19 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 7 | 0.22 | 0.09 | 0.19 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 7 | 0.17 | 0.05 | 0.16 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 7 | 0.17 | 0.05 | 0.16 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 6 | 0.48 | 0.44 | 0.31 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 6 | 0.47 | 0.29 | 0.4 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 6 | 0.47 | 0.29 | 0.4 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 6 | 0.47 | 0.29 | 0.4 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 6 | 0.34 | 0.06 | 0.33 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 6 | 0.34 | 0.06 | 0.33 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 6 | 0.33 | 0.08 | 0.32 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 6 | 0.32 | 0.02 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 6 | 0.32 | 0.02 | 0.31 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 6 | 0.27 | 0.1 | 0.29 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 6 | 0.18 | 0.02 | 0.18 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 5 | 1.07 | 0.07 | 1.02 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 5 | 1.04 | 0.48 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 5 | 1.04 | 0.48 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 5 | 1.04 | 0.48 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 5 | 1.04 | 0.48 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 5 | 1.04 | 0.48 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 5 | 1.04 | 0.48 | 0.86 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 5 | 0.54 | 0.22 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 5 | 0.52 | 0.04 | 0.51 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 5 | 0.36 | 0.13 | 0.39 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 5 | 0.36 | 0.13 | 0.39 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 5 | 0.24 | 0.12 | 0.21 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 5 | 0.18 | 0.02 | 0.18 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 5 | 0.16 | 0.03 | 0.17 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 5 | 0.14 | 0.02 | 0.14 |
| (1,1377) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG2 | 4 | 0.43 | 0.07 | 0.44 |
| (1,1377) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG2 | 4 | 0.43 | 0.07 | 0.44 |
| (1,1383) | 1:A:12:LEU:HD11 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1383) | 1:A:12:LEU:HD12 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1383) | 1:A:12:LEU:HD13 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1383) | 1:A:12:LEU:HD21 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1383) | 1:A:12:LEU:HD22 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1383) | 1:A:12:LEU:HD23 | 1:A:59:ALA:H | 4 | 0.29 | 0.11 | 0.29 |
| (1,1533) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG3 | 4 | 0.27 | 0.08 | 0.3 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD11 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD12 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD13 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD21 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD22 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD23 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD11 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD12 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD13 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD21 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD22 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD23 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD11 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD12 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD13 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD21 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD22 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD23 | 4 | 0.26 | 0.03 | 0.26 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD11 | 4 | 0.23 | 0.08 | 0.23 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD12 | 4 | 0.23 | 0.08 | 0.23 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD13 | 4 | 0.23 | 0.08 | 0.23 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD11 | 4 | 0.23 | 0.08 | 0.23 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD12 | 4 | 0.23 | 0.08 | 0.23 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD13 | 4 | 0.23 | 0.08 | 0.23 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD11 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD12 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD13 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD11 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD12 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD13 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD11 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD12 | 4 | 0.21 | 0.06 | 0.23 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD13 | 4 | 0.21 | 0.06 | 0.23 |
| (1,59) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 4 | 0.2 | 0.03 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD11 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD12 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD13 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD21 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD22 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1385) | 1:A:12:LEU:HD23 | 1:A:60:GLN:H | 4 | 0.18 | 0.04 | 0.18 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD11 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD12 | 4 | 0.16 | 0.04 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD13 | 4 | 0.16 | 0.04 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB2 | 4 | 0.16 | 0.01 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB3 | 4 | 0.16 | 0.01 | 0.16 |
| (1,192) | 1:A:48:GLY:HA3 | 1:A:50:MET:H | 4 | 0.14 | 0.03 | 0.13 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD11 | 4 | 0.14 | 0.03 | 0.12 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD12 | 4 | 0.14 | 0.03 | 0.12 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD13 | 4 | 0.14 | 0.03 | 0.12 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD21 | 4 | 0.14 | 0.03 | 0.12 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD22 | 4 | 0.14 | 0.03 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD23 | 4 | 0.14 | 0.03 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD11 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD12 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD13 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD21 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD22 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD23 | 1:A:79:PHE:HA | 4 | 0.12 | 0.01 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG2 | 4 | 0.12 | 0.0 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG3 | 4 | 0.12 | 0.0 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG2 | 4 | 0.12 | 0.0 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG3 | 4 | 0.12 | 0.0 | 0.12 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD11 | 3 | 0.93 | 0.4 | 0.89 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD12 | 3 | 0.93 | 0.4 | 0.89 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD13 | 3 | 0.93 | 0.4 | 0.89 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE1 | 3 | 0.42 | 0.19 | 0.48 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE2 | 3 | 0.42 | 0.19 | 0.48 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD11 | 3 | 0.2 | 0.05 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD12 | 3 | 0.2 | 0.05 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD13 | 3 | 0.2 | 0.05 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD11 | 3 | 0.2 | 0.05 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD12 | 3 | 0.2 | 0.05 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD13 | 3 | 0.2 | 0.05 | 0.19 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG2 | 3 | 0.2 | 0.06 | 0.24 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG3 | 3 | 0.2 | 0.06 | 0.24 |
| (1,316) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 3 | 0.19 | 0.08 | 0.14 |
| (1,1217) | 1:A:64:THR:HG21 | 1:A:65:HIS:HD2 | 3 | 0.19 | 0.03 | 0.18 |
| (1,1217) | 1:A:64:THR:HG22 | 1:A:65:HIS:HD2 | 3 | 0.19 | 0.03 | 0.18 |
| (1,1217) | 1:A:64:THR:HG23 | 1:A:65:HIS:HD2 | 3 | 0.19 | 0.03 | 0.18 |
| (1,1484) | 1:A:22:LEU:HD11 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD12 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD13 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD21 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD22 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD23 | 1:A:30:PHE:HB2 | 3 | 0.17 | 0.05 | 0.17 |
| (1,696) | 1:A:47:TRP:H | 1:A:47:TRP:HB2 | 3 | 0.17 | 0.02 | 0.17 |
| (1,734) | 1:A:85:LYS:H | 1:A:85:LYS:HB2 | 3 | 0.15 | 0.0 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB2 | 3 | 0.15 | 0.03 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB3 | 3 | 0.15 | 0.03 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB2 | 3 | 0.15 | 0.03 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB3 | 3 | 0.15 | 0.03 | 0.15 |
| (1,1085) | 1:A:34:LEU:HB3 | 1:A:35:GLY:H | 3 | 0.14 | 0.01 | 0.14 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB1 | 3 | 0.13 | 0.03 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB2 | 3 | 0.13 | 0.03 | 0.12 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB3 | 3 | 0.13 | 0.03 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB2 | 3 | 0.12 | 0.01 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB3 | 3 | 0.12 | 0.01 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB2 | 3 | 0.12 | 0.01 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB3 | 3 | 0.12 | 0.01 | 0.12 |
| (1,1079) | 1:A:47:TRP:H | 1:A:48:GLY:H | 3 | 0.12 | 0.0 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD2 | 1:A:10:ASP:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD3 | 1:A:10:ASP:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD11 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD12 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD13 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD21 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD22 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD23 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD11 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD12 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD13 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD21 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD22 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD23 | 3 | 0.11 | 0.0 | 0.11 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD11 | 2 | 0.85 | 0.23 | 0.85 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD12 | 2 | 0.85 | 0.23 | 0.85 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD13 | 2 | 0.85 | 0.23 | 0.85 |
| (1,1598) | 1:A:40:LEU:HB2 | 1:A:43:GLY:H | 2 | 0.53 | 0.21 | 0.53 |
| (1,1598) | 1:A:40:LEU:HB3 | 1:A:43:GLY:H | 2 | 0.53 | 0.21 | 0.53 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 2 | 0.42 | 0.14 | 0.42 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 2 | 0.42 | 0.14 | 0.42 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 2 | 0.42 | 0.14 | 0.42 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 2 | 0.42 | 0.14 | 0.42 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD1 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD2 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD1 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD2 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD1 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD2 | 2 | 0.4 | 0.11 | 0.4 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD1 | 2 | 0.38 | 0.12 | 0.38 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD2 | 2 | 0.38 | 0.12 | 0.38 |
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG2 | 2 | 0.32 | 0.17 | 0.32 |
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG3 | 2 | 0.32 | 0.17 | 0.32 |
| (1,1389) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,1389) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,1389) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,1389) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,1389) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,1389) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 2 | 0.31 | 0.02 | 0.31 |
| (1,893) | 1:A:32:LEU:H | 1:A:32:LEU:HG | 2 | 0.3 | 0.0 | 0.3 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG21 | 2 | 0.27 | 0.16 | 0.27 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG22 | 2 | 0.27 | 0.16 | 0.27 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG23 | 2 | 0.27 | 0.16 | 0.27 |
| (1,1224) | 1:A:72:TRP:HZ3 | 1:A:76:LEU:HB2 | 2 | 0.25 | 0.12 | 0.25 |
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG2 | 2 | 0.24 | 0.03 | 0.24 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG3 | 2 | 0.24 | 0.03 | 0.24 |
| (1,773) | 1:A:95:ASP:HA | 1:A:96:LEU:H | 2 | 0.22 | 0.02 | 0.22 |
| (1,1152) | 1:A:47:TRP:HA | 1:A:47:TRP:HE3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG2 | 2 | 0.21 | 0.05 | 0.21 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG3 | 2 | 0.21 | 0.05 | 0.21 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG21 | 2 | 0.19 | 0.04 | 0.19 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG22 | 2 | 0.19 | 0.04 | 0.19 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG23 | 2 | 0.19 | 0.04 | 0.19 |
| (1,80) | 1:A:73:ARG:HA | 1:A:76:LEU:HB3 | 2 | 0.18 | 0.04 | 0.18 |
| (1,969) | 1:A:64:THR:HG21 | 1:A:65:HIS:H | 2 | 0.18 | 0.02 | 0.18 |
| (1,969) | 1:A:64:THR:HG22 | 1:A:65:HIS:H | 2 | 0.18 | 0.02 | 0.18 |
| (1,969) | 1:A:64:THR:HG23 | 1:A:65:HIS:H | 2 | 0.18 | 0.02 | 0.18 |

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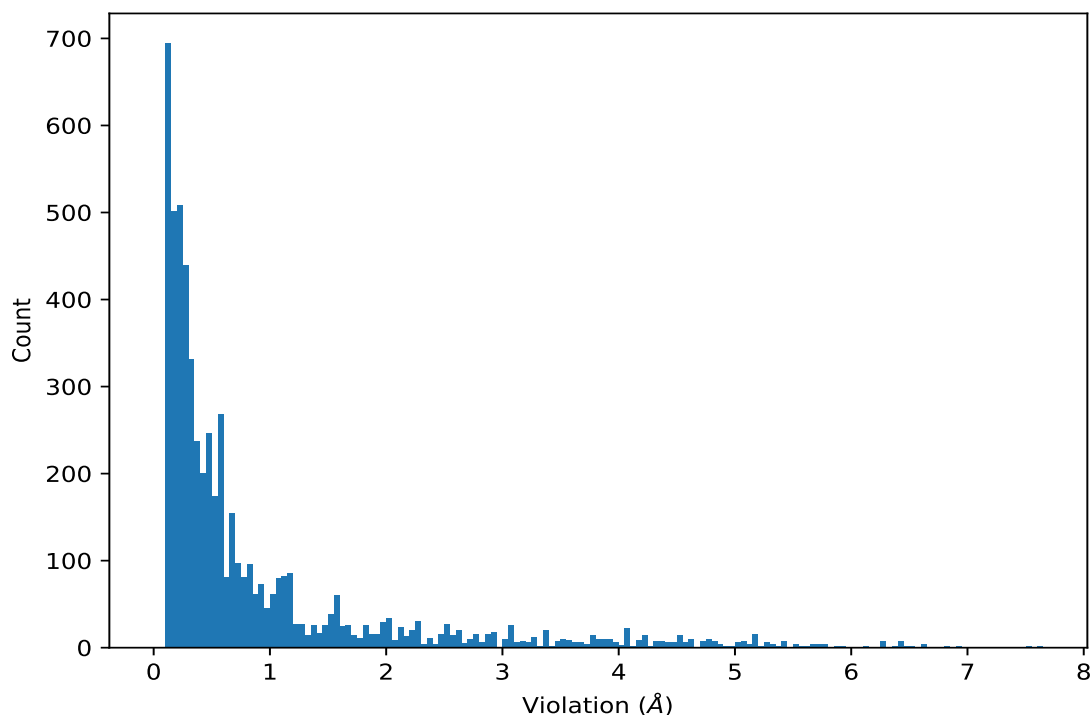
| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|----------------|------------------|---------------------|----------|---------------------|------------|
| (1,862) | 1:A:94:GLU:H | 1:A:95:ASP:H | 2 | 0.18 | 0.02 | 0.18 |
| (1,171) | 1:A:84:ARG:HA | 1:A:84:ARG:HD2 | 2 | 0.18 | 0.03 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG11 | 2 | 0.18 | 0.0 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG12 | 2 | 0.18 | 0.0 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG13 | 2 | 0.18 | 0.0 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG21 | 2 | 0.18 | 0.0 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG22 | 2 | 0.18 | 0.0 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG23 | 2 | 0.18 | 0.0 | 0.18 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB2 | 2 | 0.16 | 0.01 | 0.16 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB3 | 2 | 0.16 | 0.01 | 0.16 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB2 | 2 | 0.16 | 0.01 | 0.16 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB3 | 2 | 0.16 | 0.01 | 0.16 |
| (1,764) | 1:A:84:ARG:HA | 1:A:87:LEU:H | 2 | 0.15 | 0.01 | 0.15 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG2 | 2 | 0.14 | 0.01 | 0.14 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG3 | 2 | 0.14 | 0.01 | 0.14 |
| (1,1246) | 1:A:87:LEU:HA | 1:A:90:ARG:HG3 | 2 | 0.14 | 0.02 | 0.14 |
| (1,1182) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HG | 2 | 0.12 | 0.01 | 0.12 |
| (1,1354) | 1:A:72:TRP:HE3 | 1:A:73:ARG:HA | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG2 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB2 | 2 | 0.11 | 0.0 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB3 | 2 | 0.11 | 0.0 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB2 | 2 | 0.11 | 0.0 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB3 | 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) |
|----------|----------------|----------------|----------|---------------|
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 10 | 7.61 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 10 | 7.61 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 1 | 7.54 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 1 | 7.54 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 7 | 6.91 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 7 | 6.91 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 6 | 6.81 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 6 | 6.81 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 18 | 6.64 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 18 | 6.64 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 13 | 6.61 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 13 | 6.61 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 8 | 6.54 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 8 | 6.54 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 9 | 6.45 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 9 | 6.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 9 | 6.42 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 9 | 6.42 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 9 | 6.42 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 9 | 6.42 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 11 | 6.41 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 11 | 6.41 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 2 | 6.41 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 2 | 6.41 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 20 | 6.36 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 20 | 6.36 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 2 | 6.3 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 2 | 6.3 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 2 | 6.3 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 2 | 6.3 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 15 | 6.29 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 15 | 6.29 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 5 | 6.26 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 5 | 6.26 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 1 | 6.14 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 1 | 6.14 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 13 | 5.92 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 13 | 5.92 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 7 | 5.86 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 7 | 5.86 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 7 | 5.8 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 7 | 5.8 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 18 | 5.78 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 18 | 5.78 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 14 | 5.73 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 14 | 5.73 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 5 | 5.71 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 5 | 5.71 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 18 | 5.68 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 18 | 5.68 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 5 | 5.66 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 5 | 5.66 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 10 | 5.64 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 10 | 5.64 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 9 | 5.6 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 9 | 5.6 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 13 | 5.52 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 13 | 5.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 13 | 5.52 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 13 | 5.52 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 18 | 5.43 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 18 | 5.43 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 9 | 5.41 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 9 | 5.41 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 17 | 5.41 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 17 | 5.41 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 9 | 5.4 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 9 | 5.4 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 9 | 5.36 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 9 | 5.36 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 2 | 5.35 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 2 | 5.35 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 7 | 5.33 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 7 | 5.33 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 7 | 5.28 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 7 | 5.28 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 18 | 5.27 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 18 | 5.27 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 18 | 5.27 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 18 | 5.27 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 2 | 5.21 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 2 | 5.21 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 8 | 5.19 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 8 | 5.19 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 8 | 5.19 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 8 | 5.19 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 7 | 5.18 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 7 | 5.18 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 1 | 5.18 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 1 | 5.18 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 8 | 5.15 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 8 | 5.15 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 1 | 5.15 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 1 | 5.15 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 1 | 5.15 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 1 | 5.15 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 5 | 5.15 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 5 | 5.15 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 7 | 5.13 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 7 | 5.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 5 | 5.12 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 5 | 5.12 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 9 | 5.07 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 9 | 5.07 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 9 | 5.07 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 9 | 5.07 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 16 | 5.07 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 16 | 5.07 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 16 | 5.07 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 16 | 5.07 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 15 | 5.04 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 15 | 5.04 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 1 | 5.02 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 1 | 5.02 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 9 | 5.02 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 9 | 5.02 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 12 | 4.99 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 12 | 4.99 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 5 | 4.9 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 5 | 4.9 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 9 | 4.89 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 9 | 4.89 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 9 | 4.89 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 9 | 4.89 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 18 | 4.84 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 18 | 4.84 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 16 | 4.84 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 16 | 4.84 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 7 | 4.82 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 7 | 4.82 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 7 | 4.82 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 7 | 4.82 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 6 | 4.79 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 6 | 4.79 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 20 | 4.79 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 20 | 4.79 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 12 | 4.77 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 12 | 4.77 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 12 | 4.77 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 12 | 4.77 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 12 | 4.76 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 12 | 4.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 18 | 4.73 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 15 | 4.72 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 15 | 4.72 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 15 | 4.72 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 15 | 4.72 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 17 | 4.72 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 17 | 4.72 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 5 | 4.64 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 5 | 4.64 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 2 | 4.64 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 2 | 4.64 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 18 | 4.64 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 18 | 4.64 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 18 | 4.64 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 18 | 4.64 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 16 | 4.61 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 16 | 4.61 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 13 | 4.6 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 13 | 4.6 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 8 | 4.58 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 8 | 4.58 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 17 | 4.57 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 17 | 4.57 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 2 | 4.53 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 2 | 4.53 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 13 | 4.53 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 13 | 4.53 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 7 | 4.52 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 7 | 4.52 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 7 | 4.52 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 7 | 4.52 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 9 | 4.52 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 9 | 4.52 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 13 | 4.51 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 13 | 4.51 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 18 | 4.5 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 18 | 4.5 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 13 | 4.45 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 13 | 4.45 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 5 | 4.45 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 5 | 4.45 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 5 | 4.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 5 | 4.45 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 17 | 4.43 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 17 | 4.43 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 17 | 4.43 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 17 | 4.43 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 15 | 4.42 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 15 | 4.42 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 20 | 4.38 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 20 | 4.38 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 1 | 4.37 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 1 | 4.37 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 20 | 4.36 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 20 | 4.36 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 14 | 4.36 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 14 | 4.36 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 5 | 4.34 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 5 | 4.34 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 5 | 4.34 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 5 | 4.34 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 11 | 4.34 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 11 | 4.34 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 15 | 4.31 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 15 | 4.31 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 16 | 4.28 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 16 | 4.28 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 13 | 4.24 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 13 | 4.24 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 12 | 4.23 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 12 | 4.23 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 20 | 4.23 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 20 | 4.23 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 1 | 4.22 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 1 | 4.22 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 13 | 4.21 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 13 | 4.21 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 13 | 4.21 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 13 | 4.21 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 18 | 4.21 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 18 | 4.21 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 12 | 4.19 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 12 | 4.19 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 2 | 4.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 2 | 4.18 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 2 | 4.18 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 2 | 4.18 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 6 | 4.18 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 11 | 4.15 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 11 | 4.15 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 11 | 4.13 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 11 | 4.13 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 13 | 4.1 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 13 | 4.1 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 7 | 4.08 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 7 | 4.08 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 14 | 4.07 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 14 | 4.07 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 14 | 4.07 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 14 | 4.07 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 19 | 4.06 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 19 | 4.06 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 19 | 4.06 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 19 | 4.06 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 1 | 4.06 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 1 | 4.06 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 18 | 4.05 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 18 | 4.05 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 18 | 4.05 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 18 | 4.05 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 16 | 4.05 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 16 | 4.05 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 16 | 4.05 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 16 | 4.05 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 15 | 4.03 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 2 | 4.01 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 2 | 4.01 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 8 | 3.99 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 8 | 3.99 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 13 | 3.99 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 13 | 3.99 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 15 | 3.96 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 15 | 3.96 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 8 | 3.94 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 8 | 3.94 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 1 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|----------------|----------|---------------|
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 1 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 1 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 1 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 20 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 20 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 20 | 3.92 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 20 | 3.92 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 16 | 3.89 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 16 | 3.89 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 11 | 3.87 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 11 | 3.87 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 12 | 3.86 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 12 | 3.86 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 12 | 3.85 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 12 | 3.85 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 12 | 3.85 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 12 | 3.85 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 20 | 3.84 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 20 | 3.84 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 20 | 3.84 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 20 | 3.84 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 15 | 3.82 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 15 | 3.82 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 13 | 3.81 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 13 | 3.81 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 13 | 3.81 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 13 | 3.81 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 7 | 3.8 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 7 | 3.8 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 2 | 3.79 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 2 | 3.79 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 15 | 3.78 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 15 | 3.78 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 15 | 3.78 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 15 | 3.78 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 3 | 3.77 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 3 | 3.77 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 20 | 3.77 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 20 | 3.77 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 8 | 3.76 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 8 | 3.76 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 14 | 3.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 14 | 3.74 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 17 | 3.71 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 17 | 3.71 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 7 | 3.68 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 7 | 3.68 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 7 | 3.68 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 7 | 3.68 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 15 | 3.68 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 15 | 3.68 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 2 | 3.65 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 2 | 3.65 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 2 | 3.65 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 2 | 3.65 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 17 | 3.64 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 17 | 3.64 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 3 | 3.58 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 5 | 3.58 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 5 | 3.58 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 5 | 3.57 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 5 | 3.57 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 8 | 3.57 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 8 | 3.57 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 16 | 3.57 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 16 | 3.57 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 15 | 3.53 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 15 | 3.53 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 15 | 3.53 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 15 | 3.53 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 15 | 3.53 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 15 | 3.53 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 8 | 3.52 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 8 | 3.52 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 8 | 3.52 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 8 | 3.52 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 20 | 3.46 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 20 | 3.46 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 18 | 3.45 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 18 | 3.45 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 18 | 3.45 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 18 | 3.45 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 18 | 3.45 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 18 | 3.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 19 | 3.43 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 19 | 3.43 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 16 | 3.38 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 16 | 3.38 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 16 | 3.38 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 16 | 3.38 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 11 | 3.38 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 11 | 3.38 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 11 | 3.38 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 11 | 3.38 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 11 | 3.37 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 11 | 3.37 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 5 | 3.37 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 5 | 3.37 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 5 | 3.37 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 5 | 3.37 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 17 | 3.37 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 17 | 3.37 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 17 | 3.37 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 17 | 3.37 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 16 | 3.36 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 16 | 3.36 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 16 | 3.33 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 16 | 3.33 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 17 | 3.28 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 17 | 3.28 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 9 | 3.27 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 9 | 3.27 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 9 | 3.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 9 | 3.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 9 | 3.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 9 | 3.27 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 15 | 3.25 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 15 | 3.25 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 15 | 3.25 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 15 | 3.25 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 15 | 3.22 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 15 | 3.22 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 14 | 3.22 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 14 | 3.22 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 10 | 3.21 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 10 | 3.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 4 | 3.19 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 4 | 3.19 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 4 | 3.19 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 4 | 3.19 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 19 | 3.18 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 19 | 3.18 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 3 | 3.17 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 3 | 3.17 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 14 | 3.15 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 14 | 3.15 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 20 | 3.15 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 20 | 3.15 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 11 | 3.12 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 11 | 3.12 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 1 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 19 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 19 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 19 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 19 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 19 | 3.09 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 19 | 3.09 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 3 | 3.08 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 3 | 3.08 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 3 | 3.08 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 3 | 3.08 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 15 | 3.06 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 15 | 3.06 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 15 | 3.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 15 | 3.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 15 | 3.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 15 | 3.06 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 17 | 3.06 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 17 | 3.06 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 19 | 3.06 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 19 | 3.06 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 20 | 3.05 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 20 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 3 | 3.04 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 3 | 3.04 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 19 | 3.04 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 19 | 3.04 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 17 | 3.0 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 17 | 3.0 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 17 | 3.0 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 17 | 3.0 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 20 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 20 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 20 | 2.94 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 20 | 2.94 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 15 | 2.94 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 15 | 2.94 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 14 | 2.93 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 14 | 2.93 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 14 | 2.93 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 14 | 2.93 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 18 | 2.92 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 18 | 2.92 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 18 | 2.92 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 18 | 2.92 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 18 | 2.92 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 18 | 2.92 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 8 | 2.91 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 8 | 2.91 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 4 | 2.89 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 4 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 16 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 16 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 16 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 16 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 16 | 2.89 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 16 | 2.89 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 11 | 2.88 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 11 | 2.88 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 19 | 2.88 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 19 | 2.88 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 19 | 2.88 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 19 | 2.88 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 19 | 2.88 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 19 | 2.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 13 | 2.84 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 13 | 2.84 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 1 | 2.84 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 1 | 2.84 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 4 | 2.84 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 4 | 2.84 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 9 | 2.8 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 9 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 4 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 4 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 4 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 4 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 4 | 2.8 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 4 | 2.8 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 14 | 2.79 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 14 | 2.79 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 9 | 2.78 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 9 | 2.78 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 9 | 2.78 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 9 | 2.78 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 9 | 2.78 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 9 | 2.78 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 8 | 2.74 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 8 | 2.74 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 4 | 2.74 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 4 | 2.74 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 4 | 2.73 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 4 | 2.73 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 4 | 2.73 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 4 | 2.73 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 12 | 2.73 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 12 | 2.73 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 8 | 2.69 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 8 | 2.69 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 8 | 2.69 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 8 | 2.69 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 14 | 2.66 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 1 | 2.65 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 1 | 2.65 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 1 | 2.65 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 1 | 2.65 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 1 | 2.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 1 | 2.65 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 19 | 2.62 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 19 | 2.62 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 19 | 2.62 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 19 | 2.62 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 19 | 2.62 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 19 | 2.62 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 20 | 2.61 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 20 | 2.61 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 20 | 2.61 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 20 | 2.61 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 20 | 2.61 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 20 | 2.61 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 14 | 2.6 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 14 | 2.6 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 4 | 2.59 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 4 | 2.59 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 1 | 2.58 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 1 | 2.58 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 1 | 2.58 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 1 | 2.58 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 1 | 2.57 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 1 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 12 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 12 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 12 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 12 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 12 | 2.57 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 12 | 2.57 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 12 | 2.55 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 12 | 2.55 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 16 | 2.54 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 16 | 2.54 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 16 | 2.54 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 16 | 2.54 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 16 | 2.54 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 16 | 2.54 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 14 | 2.54 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 14 | 2.54 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 14 | 2.54 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 14 | 2.54 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 14 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 14 | 2.53 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 12 | 2.53 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 12 | 2.53 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 12 | 2.53 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 12 | 2.53 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 14 | 2.52 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 14 | 2.52 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 14 | 2.52 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 14 | 2.52 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 14 | 2.52 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 14 | 2.52 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 10 | 2.51 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 10 | 2.51 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 5 | 2.5 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 8 | 2.49 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 8 | 2.49 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 8 | 2.49 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 8 | 2.49 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 8 | 2.49 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 8 | 2.49 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 19 | 2.47 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 5 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 5 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 5 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 5 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 17 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 17 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 17 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 17 | 2.46 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 7 | 2.42 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 7 | 2.42 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 7 | 2.42 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 7 | 2.42 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 4 | 2.39 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 4 | 2.39 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 4 | 2.39 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 4 | 2.39 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 4 | 2.39 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 4 | 2.39 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 6 | 2.38 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 4 | 2.37 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 4 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 3 | 2.36 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 3 | 2.36 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 10 | 2.33 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 10 | 2.33 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 10 | 2.33 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 10 | 2.33 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 11 | 2.3 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 19 | 2.3 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 19 | 2.3 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 7 | 2.29 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 3 | 2.29 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 3 | 2.29 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 4 | 2.29 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 4 | 2.29 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 4 | 2.29 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 4 | 2.29 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 12 | 2.29 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 12 | 2.29 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 16 | 2.27 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 16 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 17 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 17 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 17 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 17 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 17 | 2.27 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 17 | 2.27 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 11 | 2.26 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 11 | 2.26 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 11 | 2.26 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 11 | 2.26 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 7 | 2.26 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 11 | 2.26 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 11 | 2.26 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 11 | 2.26 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 11 | 2.26 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 4 | 2.25 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 4 | 2.25 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 16 | 2.24 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 4 | 2.24 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 19 | 2.24 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 19 | 2.24 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 3 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 3 | 2.23 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 3 | 2.23 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 3 | 2.23 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 3 | 2.23 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 3 | 2.23 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 10 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 10 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 10 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 10 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 20 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 20 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 20 | 2.22 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 20 | 2.22 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 10 | 2.2 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 10 | 2.2 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 17 | 2.19 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 14 | 2.19 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 14 | 2.19 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 10 | 2.18 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 10 | 2.18 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 10 | 2.18 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 10 | 2.18 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 10 | 2.18 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 10 | 2.18 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 16 | 2.17 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 16 | 2.17 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 16 | 2.17 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 13 | 2.15 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 2 | 2.14 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 2 | 2.14 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 5 | 2.12 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 5 | 2.12 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 5 | 2.12 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 14 | 2.11 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 14 | 2.11 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 14 | 2.11 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 14 | 2.11 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 14 | 2.11 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 14 | 2.11 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 6 | 2.11 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 6 | 2.11 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 15 | 2.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 15 | 2.1 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 15 | 2.1 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 1 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 13 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 13 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 13 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 13 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 13 | 2.1 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 13 | 2.1 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 12 | 2.06 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 12 | 2.06 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 12 | 2.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 12 | 2.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 12 | 2.06 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 12 | 2.06 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 8 | 2.06 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 3 | 2.06 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 3 | 2.06 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 20 | 2.05 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 19 | 2.05 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 19 | 2.05 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 19 | 2.05 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 19 | 2.05 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 17 | 2.05 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 17 | 2.05 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 20 | 2.05 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 20 | 2.05 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 8 | 2.02 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 8 | 2.02 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 8 | 2.02 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 8 | 2.02 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 8 | 2.02 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 8 | 2.02 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 10 | 2.02 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 10 | 2.02 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 10 | 2.02 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 10 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 3 | 2.01 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 3 | 2.01 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 4 | 2.01 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 4 | 2.01 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 8 | 2.01 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 8 | 2.01 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 3 | 2.0 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 3 | 2.0 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 3 | 2.0 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 3 | 2.0 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 3 | 1.99 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 3 | 1.99 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 3 | 1.99 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 3 | 1.99 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 3 | 1.99 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 3 | 1.99 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 5 | 1.99 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 5 | 1.99 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 9 | 1.99 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 9 | 1.99 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 9 | 1.99 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 9 | 1.99 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 11 | 1.99 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 11 | 1.99 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 6 | 1.97 |
| (1,186) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 6 | 1.97 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 11 | 1.97 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 3 | 1.96 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 3 | 1.96 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 3 | 1.96 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 7 | 1.96 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 7 | 1.96 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 7 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 16 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 16 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 16 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 16 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 16 | 1.96 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 16 | 1.96 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 18 | 1.95 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 19 | 1.93 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 19 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 13 | 1.92 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 13 | 1.92 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 14 | 1.92 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG2 | 6 | 1.92 |
| (1,1226) | 1:A:72:TRP:HH2 | 1:A:94:GLU:HG3 | 6 | 1.92 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 10 | 1.91 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 10 | 1.91 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 10 | 1.91 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 10 | 1.91 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 17 | 1.91 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 17 | 1.91 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 17 | 1.91 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 10 | 1.9 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 10 | 1.9 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 18 | 1.89 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 18 | 1.89 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 18 | 1.89 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 17 | 1.86 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 17 | 1.86 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 17 | 1.86 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 17 | 1.86 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 17 | 1.86 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 17 | 1.86 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 8 | 1.86 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 8 | 1.86 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 7 | 1.85 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 7 | 1.85 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 10 | 1.84 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 10 | 1.84 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 10 | 1.84 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 10 | 1.84 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 10 | 1.84 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 10 | 1.84 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 11 | 1.83 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 11 | 1.83 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 10 | 1.83 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 10 | 1.83 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 4 | 1.82 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 4 | 1.82 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 4 | 1.82 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 9 | 1.81 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 9 | 1.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 9 | 1.81 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 3 | 1.81 |
| (1,1823) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 3 | 1.81 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 3 | 1.81 |
| (1,1823) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 3 | 1.81 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 13 | 1.8 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 13 | 1.8 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 13 | 1.8 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 13 | 1.8 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 13 | 1.8 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 13 | 1.8 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 12 | 1.78 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 12 | 1.78 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 10 | 1.77 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 10 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 2 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 2 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 2 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 2 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 2 | 1.77 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 2 | 1.77 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 1 | 1.76 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 3 | 1.74 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 3 | 1.74 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 16 | 1.73 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 16 | 1.73 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 15 | 1.73 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 15 | 1.73 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 11 | 1.72 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 11 | 1.72 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 11 | 1.72 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 15 | 1.72 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 1 | 1.72 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 1 | 1.72 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 1 | 1.72 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 20 | 1.71 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 7 | 1.7 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 7 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 5 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 5 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 5 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 5 | 1.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 5 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 5 | 1.7 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 9 | 1.7 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 9 | 1.7 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 7 | 1.69 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 7 | 1.69 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 7 | 1.69 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 7 | 1.69 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 7 | 1.69 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 7 | 1.69 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 19 | 1.67 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 19 | 1.67 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 19 | 1.67 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 6 | 1.66 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 6 | 1.66 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 6 | 1.66 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 3 | 1.66 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 3 | 1.66 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 17 | 1.66 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 17 | 1.66 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 18 | 1.65 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 18 | 1.64 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 18 | 1.64 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 6 | 1.64 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 15 | 1.64 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 15 | 1.64 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 16 | 1.63 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 20 | 1.62 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 20 | 1.62 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 20 | 1.62 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 11 | 1.61 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 15 | 1.61 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 17 | 1.6 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 17 | 1.6 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 17 | 1.6 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 19 | 1.6 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 19 | 1.6 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 10 | 1.6 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 12 | 1.6 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 6 | 1.6 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 6 | 1.6 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 6 | 1.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 6 | 1.6 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 6 | 1.6 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 6 | 1.6 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 15 | 1.59 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 15 | 1.59 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 15 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG21 | 11 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG22 | 11 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE1 | 1:A:36:THR:HG23 | 11 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG21 | 11 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG22 | 11 | 1.59 |
| (1,1213) | 1:A:33:TYR:HE2 | 1:A:36:THR:HG23 | 11 | 1.59 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 18 | 1.58 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 18 | 1.58 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 18 | 1.58 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 20 | 1.58 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 20 | 1.58 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 20 | 1.58 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 1 | 1.57 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 1 | 1.57 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 1 | 1.57 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 2 | 1.57 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 2 | 1.57 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 16 | 1.57 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 16 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 4 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 4 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 4 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 7 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 7 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 7 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 13 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 13 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 13 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 14 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 14 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 14 | 1.57 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 6 | 1.57 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 6 | 1.57 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 1 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 1 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 1 | 1.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 8 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 8 | 1.56 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 8 | 1.56 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 2 | 1.55 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 2 | 1.55 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 2 | 1.55 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 2 | 1.55 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 2 | 1.55 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 2 | 1.55 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 19 | 1.55 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 19 | 1.55 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 19 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 9 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 9 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 9 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 12 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 12 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 12 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 17 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 17 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 17 | 1.55 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 3 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 3 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 3 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 5 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 5 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 5 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 6 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 6 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 6 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 11 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 11 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 11 | 1.54 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 16 | 1.53 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 16 | 1.53 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 16 | 1.53 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 10 | 1.52 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 10 | 1.52 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 10 | 1.52 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG2 | 3 | 1.52 |
| (1,1278) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HG3 | 3 | 1.52 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD11 | 2 | 1.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD12 | 2 | 1.51 |
| (1,1329) | 1:A:35:GLY:HA2 | 1:A:74:LEU:HD13 | 2 | 1.51 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 15 | 1.51 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 15 | 1.51 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 15 | 1.51 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 5 | 1.5 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 5 | 1.5 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 5 | 1.5 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 5 | 1.5 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 5 | 1.5 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 5 | 1.5 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 4 | 1.5 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 4 | 1.5 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 9 | 1.5 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 9 | 1.5 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 13 | 1.5 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 13 | 1.5 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 13 | 1.5 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 11 | 1.49 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 11 | 1.49 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 11 | 1.49 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 3 | 1.49 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 3 | 1.49 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 18 | 1.48 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 18 | 1.48 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 1 | 1.48 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 1 | 1.48 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 2 | 1.47 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 2 | 1.47 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 2 | 1.47 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 8 | 1.46 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 8 | 1.46 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 8 | 1.46 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 17 | 1.46 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 17 | 1.46 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 17 | 1.46 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 7 | 1.46 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 7 | 1.46 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 7 | 1.46 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 7 | 1.46 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 7 | 1.46 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 7 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 10 | 1.46 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 10 | 1.46 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 16 | 1.45 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 16 | 1.45 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 16 | 1.45 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 17 | 1.45 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 17 | 1.45 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 20 | 1.44 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 20 | 1.44 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 20 | 1.44 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD11 | 3 | 1.44 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD12 | 3 | 1.44 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD13 | 3 | 1.44 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 2 | 1.44 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 2 | 1.44 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 2 | 1.44 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB2 | 9 | 1.43 |
| (1,1627) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HB3 | 9 | 1.43 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 6 | 1.43 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 6 | 1.4 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 6 | 1.4 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 6 | 1.4 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 5 | 1.39 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 5 | 1.39 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 6 | 1.36 |
| (1,1822) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 6 | 1.36 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB2 | 6 | 1.36 |
| (1,1822) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HB3 | 6 | 1.36 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 12 | 1.36 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 12 | 1.36 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 18 | 1.36 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 18 | 1.36 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 5 | 1.36 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 5 | 1.36 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 15 | 1.35 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 15 | 1.35 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 15 | 1.35 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 11 | 1.35 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 11 | 1.35 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 11 | 1.35 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 11 | 1.35 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 11 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 11 | 1.35 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 4 | 1.35 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 4 | 1.35 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 15 | 1.34 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 15 | 1.34 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG21 | 6 | 1.33 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG22 | 6 | 1.33 |
| (1,515) | 1:A:33:TYR:HD1 | 1:A:36:THR:HG23 | 6 | 1.33 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG21 | 6 | 1.33 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG22 | 6 | 1.33 |
| (1,515) | 1:A:33:TYR:HD2 | 1:A:36:THR:HG23 | 6 | 1.33 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 7 | 1.33 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 7 | 1.33 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 7 | 1.33 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 5 | 1.33 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 12 | 1.33 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 2 | 1.31 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 8 | 1.29 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 20 | 1.29 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 20 | 1.29 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 20 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 20 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 20 | 1.29 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 20 | 1.29 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 2 | 1.28 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 2 | 1.28 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 2 | 1.28 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 4 | 1.27 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 4 | 1.27 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 4 | 1.27 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 17 | 1.26 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 17 | 1.26 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 19 | 1.26 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 19 | 1.26 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 9 | 1.26 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 14 | 1.26 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 14 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 16 | 1.25 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 8 | 1.25 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 17 | 1.23 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 17 | 1.23 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 17 | 1.23 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 17 | 1.23 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 17 | 1.23 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 17 | 1.23 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 7 | 1.22 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 7 | 1.22 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 7 | 1.22 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 13 | 1.22 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 13 | 1.22 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 8 | 1.22 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 8 | 1.22 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 8 | 1.22 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG2 | 6 | 1.22 |
| (1,1172) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HG3 | 6 | 1.22 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 15 | 1.21 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 15 | 1.21 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 15 | 1.21 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 15 | 1.21 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 15 | 1.21 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 15 | 1.21 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 18 | 1.21 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 18 | 1.21 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 18 | 1.21 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 2 | 1.21 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 2 | 1.21 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 9 | 1.2 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 9 | 1.2 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 9 | 1.2 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 9 | 1.2 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 9 | 1.2 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 9 | 1.2 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 7 | 1.2 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 3 | 1.19 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 3 | 1.19 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 3 | 1.19 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 2 | 1.19 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 2 | 1.19 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 4 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 4 | 1.19 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 10 | 1.19 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 1 | 1.19 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 1 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 5 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 5 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 5 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 20 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 20 | 1.19 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 20 | 1.19 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 11 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 11 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 11 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 13 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 13 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 13 | 1.18 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 19 | 1.18 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 19 | 1.18 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 19 | 1.18 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 19 | 1.18 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 19 | 1.18 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 19 | 1.18 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 3 | 1.18 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 10 | 1.18 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 10 | 1.18 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 10 | 1.18 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 6 | 1.18 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 5 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 5 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 5 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 6 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 6 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 6 | 1.17 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 9 | 1.17 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 9 | 1.17 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 9 | 1.17 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 15 | 1.17 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 15 | 1.17 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 15 | 1.17 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 1 | 1.17 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 1 | 1.17 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 1 | 1.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 1 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 6 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 6 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 6 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 6 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 6 | 1.17 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 6 | 1.17 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 2 | 1.16 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 2 | 1.16 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 2 | 1.16 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 17 | 1.16 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 17 | 1.16 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 17 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 9 | 1.16 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 9 | 1.16 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 6 | 1.16 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 6 | 1.16 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 6 | 1.16 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 19 | 1.16 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 11 | 1.16 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 11 | 1.16 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 5 | 1.15 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 5 | 1.15 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 19 | 1.15 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 19 | 1.15 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 1 | 1.15 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 1 | 1.15 |
| (1,132) | 1:A:92:GLN:HA | 1:A:95:ASP:H | 13 | 1.15 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 18 | 1.14 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 18 | 1.14 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 18 | 1.14 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 3 | 1.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 3 | 1.14 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 3 | 1.14 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 13 | 1.14 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 13 | 1.14 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG2 | 6 | 1.14 |
| (1,1202) | 1:A:18:TYR:HE1 | 1:A:94:GLU:HG3 | 6 | 1.14 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG2 | 6 | 1.14 |
| (1,1202) | 1:A:18:TYR:HE2 | 1:A:94:GLU:HG3 | 6 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 3 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 3 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 3 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 7 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 7 | 1.14 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 7 | 1.14 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 16 | 1.14 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 4 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 4 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 4 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 12 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 12 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 12 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 14 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 14 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 14 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 16 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 16 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 16 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 15 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 15 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 15 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 15 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 15 | 1.13 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 15 | 1.13 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 3 | 1.13 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 3 | 1.13 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 4 | 1.13 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 4 | 1.13 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 1 | 1.12 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 1 | 1.12 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 1 | 1.12 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 8 | 1.12 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 8 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 8 | 1.12 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 8 | 1.12 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 8 | 1.12 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 8 | 1.12 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 15 | 1.12 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 15 | 1.12 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 15 | 1.12 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 10 | 1.11 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 10 | 1.11 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 12 | 1.11 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 12 | 1.11 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 2 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 2 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 2 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 16 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 16 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 16 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 17 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 17 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 17 | 1.1 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 16 | 1.1 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 16 | 1.1 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 16 | 1.1 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 11 | 1.1 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 11 | 1.1 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 13 | 1.1 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 13 | 1.1 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 13 | 1.1 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 13 | 1.1 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 13 | 1.09 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 13 | 1.09 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 13 | 1.09 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 3 | 1.09 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 10 | 1.09 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 10 | 1.09 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 19 | 1.08 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 19 | 1.08 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 19 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 7 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 7 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 7 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 20 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 20 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 20 | 1.08 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 6 | 1.08 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 6 | 1.08 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 6 | 1.08 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 6 | 1.08 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 9 | 1.08 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 9 | 1.08 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 9 | 1.08 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD11 | 3 | 1.08 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD12 | 3 | 1.08 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD13 | 3 | 1.08 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 4 | 1.08 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 4 | 1.08 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 4 | 1.08 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 4 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 4 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 4 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 6 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 6 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 6 | 1.07 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB2 | 6 | 1.07 |
| (1,191) | 1:A:91:GLY:HA2 | 1:A:94:GLU:HB3 | 6 | 1.07 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 7 | 1.07 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 7 | 1.07 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 3 | 1.07 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 3 | 1.07 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 17 | 1.07 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 17 | 1.07 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 17 | 1.07 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 15 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 15 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 15 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 19 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 19 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 19 | 1.06 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 3 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 3 | 1.06 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 3 | 1.06 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 3 | 1.06 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 3 | 1.06 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 3 | 1.06 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 14 | 1.06 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 14 | 1.06 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 18 | 1.06 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 18 | 1.06 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 18 | 1.06 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 3 | 1.05 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 3 | 1.05 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 3 | 1.05 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 18 | 1.05 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 18 | 1.05 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 18 | 1.05 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 3 | 1.05 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 3 | 1.05 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 3 | 1.05 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 3 | 1.05 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 3 | 1.05 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 3 | 1.05 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 12 | 1.05 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 12 | 1.05 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 12 | 1.05 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 10 | 1.04 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 10 | 1.04 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 10 | 1.04 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 12 | 1.04 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 12 | 1.04 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 12 | 1.04 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 8 | 1.04 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 8 | 1.04 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 16 | 1.04 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 10 | 1.03 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 10 | 1.03 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 10 | 1.03 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 13 | 1.03 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 13 | 1.03 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 9 | 1.03 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 9 | 1.03 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 9 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 15 | 1.02 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 15 | 1.02 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 15 | 1.02 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 2 | 1.02 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 2 | 1.02 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 2 | 1.02 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 5 | 1.02 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 5 | 1.02 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 5 | 1.02 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 3 | 1.02 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 2 | 1.02 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 2 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 12 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 12 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 12 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 19 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 19 | 1.02 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 19 | 1.02 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 8 | 1.02 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 15 | 1.01 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 20 | 1.0 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 20 | 1.0 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 20 | 1.0 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 11 | 1.0 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 11 | 1.0 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 11 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 20 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 20 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 20 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 20 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 20 | 1.0 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 20 | 1.0 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 4 | 1.0 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 4 | 1.0 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 9 | 1.0 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 10 | 1.0 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 10 | 1.0 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 10 | 1.0 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 10 | 1.0 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 10 | 1.0 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 10 | 1.0 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 19 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 19 | 1.0 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 19 | 1.0 |
| (1,1049) | 1:A:54:GLY:H | 1:A:58:MET:HG2 | 7 | 1.0 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 1 | 0.99 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 1 | 0.99 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 1 | 0.99 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 12 | 0.99 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 12 | 0.99 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 14 | 0.99 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 14 | 0.99 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 14 | 0.99 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 6 | 0.98 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 11 | 0.98 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD11 | 9 | 0.98 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD12 | 9 | 0.98 |
| (1,660) | 1:A:35:GLY:HA3 | 1:A:74:LEU:HD13 | 9 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 9 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 9 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 9 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 14 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 14 | 0.98 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 14 | 0.98 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 14 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 20 | 0.98 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 20 | 0.98 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 10 | 0.98 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 2 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 1 | 0.97 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 1 | 0.97 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 14 | 0.97 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 13 | 0.96 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 13 | 0.96 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 13 | 0.96 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG21 | 5 | 0.95 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG22 | 5 | 0.95 |
| (1,649) | 1:A:63:ILE:HB | 1:A:64:THR:HG23 | 5 | 0.95 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 6 | 0.95 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 6 | 0.95 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 16 | 0.94 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 5 | 0.94 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 5 | 0.94 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 5 | 0.94 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 14 | 0.94 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 14 | 0.94 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 14 | 0.94 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 14 | 0.94 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 14 | 0.94 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 14 | 0.94 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 14 | 0.94 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 14 | 0.94 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 14 | 0.94 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 7 | 0.94 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 18 | 0.94 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 18 | 0.94 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 7 | 0.93 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 8 | 0.93 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 17 | 0.93 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 20 | 0.93 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 20 | 0.93 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 20 | 0.93 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 15 | 0.92 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 20 | 0.92 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 17 | 0.92 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 3 | 0.92 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 3 | 0.92 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 1 | 0.91 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 9 | 0.91 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 10 | 0.91 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 14 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 16 | 0.91 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 15 | 0.91 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 15 | 0.91 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 15 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 10 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 10 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 10 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 10 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 10 | 0.91 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 10 | 0.91 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 5 | 0.91 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 5 | 0.91 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 10 | 0.91 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 10 | 0.91 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 16 | 0.91 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 16 | 0.91 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 16 | 0.91 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 3 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 4 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 5 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 13 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 18 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 19 | 0.9 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 5 | 0.9 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 5 | 0.9 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 5 | 0.9 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 5 | 0.9 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 5 | 0.9 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 5 | 0.9 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 14 | 0.9 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 14 | 0.9 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 14 | 0.9 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 20 | 0.9 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 12 | 0.9 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 12 | 0.9 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 12 | 0.9 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 12 | 0.9 |
| (1,913) | 1:A:62:LEU:H | 1:A:62:LEU:HG | 12 | 0.89 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 1 | 0.89 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 1 | 0.89 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 1 | 0.89 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD11 | 2 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD12 | 2 | 0.89 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD13 | 2 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 6 | 0.89 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 6 | 0.89 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 14 | 0.88 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 14 | 0.88 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 14 | 0.88 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 10 | 0.88 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 10 | 0.88 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 17 | 0.88 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 20 | 0.87 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 20 | 0.87 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 20 | 0.87 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 17 | 0.87 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 16 | 0.87 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 16 | 0.87 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG2 | 18 | 0.87 |
| (1,1628) | 1:A:47:TRP:HE1 | 1:A:51:GLU:HG3 | 18 | 0.87 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 16 | 0.87 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 16 | 0.87 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 6 | 0.87 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 6 | 0.87 |
| (1,1271) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 6 | 0.87 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 19 | 0.87 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 19 | 0.87 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 19 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 10 | 0.86 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 10 | 0.86 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 10 | 0.86 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 7 | 0.86 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 7 | 0.86 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 7 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 20 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 20 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 20 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 20 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 20 | 0.86 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 20 | 0.86 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 18 | 0.86 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 18 | 0.86 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 3 | 0.85 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 3 | 0.85 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 3 | 0.85 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 1 | 0.85 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 1 | 0.85 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 1 | 0.85 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 1 | 0.85 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 1 | 0.85 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 1 | 0.85 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 10 | 0.85 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 10 | 0.85 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 10 | 0.85 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 10 | 0.85 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 16 | 0.85 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 16 | 0.85 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 19 | 0.85 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 19 | 0.85 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 8 | 0.84 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 8 | 0.84 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 8 | 0.84 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 20 | 0.84 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 20 | 0.84 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 20 | 0.84 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 12 | 0.84 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 14 | 0.84 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 20 | 0.84 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 1 | 0.84 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 1 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 1 | 0.84 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 1 | 0.84 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 1 | 0.84 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 1 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 10 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 10 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 10 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 10 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 10 | 0.84 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 10 | 0.84 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 20 | 0.83 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 12 | 0.83 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 12 | 0.83 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 12 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 15 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 15 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 15 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 15 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 15 | 0.83 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 15 | 0.83 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 8 | 0.83 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 8 | 0.83 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 17 | 0.83 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 17 | 0.83 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 19 | 0.83 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 19 | 0.83 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 19 | 0.83 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 19 | 0.83 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 19 | 0.83 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 11 | 0.82 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 11 | 0.82 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 11 | 0.82 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 11 | 0.82 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 11 | 0.82 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 11 | 0.82 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 17 | 0.82 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 17 | 0.82 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 17 | 0.82 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 17 | 0.82 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 20 | 0.82 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 20 | 0.82 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 20 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 20 | 0.82 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 20 | 0.82 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 20 | 0.82 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 18 | 0.82 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 18 | 0.82 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 18 | 0.81 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 18 | 0.81 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 18 | 0.81 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 7 | 0.81 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 7 | 0.81 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 7 | 0.81 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 15 | 0.81 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 12 | 0.81 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 14 | 0.81 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 14 | 0.81 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 14 | 0.81 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 3 | 0.8 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 3 | 0.8 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 15 | 0.8 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 15 | 0.8 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 18 | 0.8 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 18 | 0.8 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 12 | 0.8 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 12 | 0.8 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 6 | 0.8 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 6 | 0.8 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 15 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 2 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 2 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 4 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 4 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 5 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 5 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 17 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 17 | 0.79 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 1 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 1 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 13 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 13 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 14 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 14 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 16 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 16 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 19 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 19 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 3 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 3 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 3 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 8 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 8 | 0.78 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 8 | 0.78 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 18 | 0.78 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 3 | 0.78 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 3 | 0.78 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 3 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 6 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 6 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 6 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 11 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 11 | 0.78 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 11 | 0.78 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 11 | 0.77 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 11 | 0.77 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 16 | 0.77 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 16 | 0.77 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 16 | 0.77 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 16 | 0.77 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 16 | 0.76 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 16 | 0.76 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 16 | 0.76 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 8 | 0.76 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 8 | 0.76 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 17 | 0.76 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 17 | 0.76 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 17 | 0.76 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 1 | 0.76 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 1 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 13 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 13 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 13 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 13 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 13 | 0.76 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 13 | 0.76 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 9 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 9 | 0.76 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 20 | 0.76 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 20 | 0.76 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 12 | 0.76 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 12 | 0.76 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 12 | 0.76 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 4 | 0.75 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 4 | 0.75 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 4 | 0.75 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 4 | 0.75 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 4 | 0.75 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 4 | 0.75 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 6 | 0.75 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 6 | 0.75 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 16 | 0.75 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 4 | 0.75 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 4 | 0.75 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 10 | 0.75 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 10 | 0.75 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 10 | 0.75 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 10 | 0.75 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 10 | 0.75 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 10 | 0.75 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 11 | 0.74 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 11 | 0.74 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 11 | 0.74 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 20 | 0.74 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 20 | 0.74 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 20 | 0.74 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 12 | 0.74 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 12 | 0.74 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 4 | 0.74 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 8 | 0.74 |
| (1,1598) | 1:A:40:LEU:HB2 | 1:A:43:GLY:H | 13 | 0.74 |
| (1,1598) | 1:A:40:LEU:HB3 | 1:A:43:GLY:H | 13 | 0.74 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 20 | 0.74 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 20 | 0.74 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 13 | 0.74 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 13 | 0.74 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 13 | 0.74 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 13 | 0.74 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 12 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 12 | 0.73 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 12 | 0.73 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 13 | 0.73 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 1 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 11 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 11 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 11 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 11 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 11 | 0.73 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 11 | 0.73 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 10 | 0.73 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 10 | 0.73 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 1 | 0.73 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 1 | 0.73 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 4 | 0.73 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 4 | 0.73 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 4 | 0.73 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 4 | 0.73 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 4 | 0.73 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 4 | 0.73 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 5 | 0.73 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 2 | 0.72 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 10 | 0.72 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 10 | 0.72 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 10 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 10 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 10 | 0.72 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 10 | 0.72 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 2 | 0.72 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 1 | 0.72 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 1 | 0.72 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 13 | 0.72 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 13 | 0.72 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 1 | 0.72 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 1 | 0.72 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 1 | 0.72 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 1 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 1 | 0.72 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 1 | 0.72 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 11 | 0.72 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 11 | 0.72 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 2 | 0.72 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 2 | 0.72 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 2 | 0.72 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 2 | 0.72 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 7 | 0.72 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 7 | 0.72 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 14 | 0.71 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 14 | 0.71 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 14 | 0.71 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 11 | 0.71 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 11 | 0.71 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 11 | 0.71 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 15 | 0.71 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 13 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 16 | 0.71 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 16 | 0.71 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 6 | 0.7 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 4 | 0.7 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 4 | 0.7 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 4 | 0.7 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 18 | 0.7 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 7 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 13 | 0.7 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 13 | 0.7 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 13 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 15 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 15 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 15 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 15 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 15 | 0.7 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 15 | 0.7 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 14 | 0.7 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 14 | 0.7 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 20 | 0.7 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 20 | 0.7 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 12 | 0.69 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 12 | 0.69 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 12 | 0.69 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 15 | 0.69 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 15 | 0.69 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 8 | 0.69 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 8 | 0.69 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 2 | 0.69 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 2 | 0.69 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 2 | 0.69 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 2 | 0.69 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 14 | 0.69 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 13 | 0.68 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 1 | 0.68 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 1 | 0.68 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 1 | 0.68 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 13 | 0.68 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 13 | 0.68 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 13 | 0.68 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 8 | 0.68 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 8 | 0.68 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 8 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 14 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 14 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 14 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 14 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 14 | 0.68 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 14 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 10 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 10 | 0.68 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 10 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 11 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 11 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 11 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 11 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 11 | 0.68 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 11 | 0.68 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 11 | 0.68 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 19 | 0.67 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 19 | 0.67 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 19 | 0.67 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 12 | 0.67 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 14 | 0.67 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 6 | 0.67 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 6 | 0.67 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 6 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 2 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 2 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 2 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 2 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 2 | 0.67 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 2 | 0.67 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 19 | 0.67 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 19 | 0.67 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 15 | 0.67 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 16 | 0.67 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 15 | 0.67 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 15 | 0.67 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 15 | 0.67 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 13 | 0.66 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 13 | 0.66 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 13 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 18 | 0.66 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 20 | 0.66 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 5 | 0.66 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 5 | 0.66 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 5 | 0.66 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 14 | 0.66 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 14 | 0.66 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 14 | 0.66 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 19 | 0.66 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 19 | 0.66 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 19 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 18 | 0.66 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 18 | 0.66 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 20 | 0.66 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 20 | 0.66 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 19 | 0.66 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 9 | 0.66 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 9 | 0.66 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 16 | 0.66 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 16 | 0.66 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 16 | 0.66 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 6 | 0.66 |
| (1,1199) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HB | 7 | 0.66 |
| (1,1199) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HB | 7 | 0.66 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 20 | 0.66 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 20 | 0.66 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 20 | 0.66 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 20 | 0.66 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 11 | 0.65 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 2 | 0.65 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 4 | 0.65 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 4 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 4 | 0.65 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 7 | 0.65 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 7 | 0.65 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 7 | 0.65 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 18 | 0.65 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 18 | 0.65 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 18 | 0.65 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 10 | 0.65 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 3 | 0.65 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 3 | 0.65 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 8 | 0.65 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 8 | 0.65 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 1 | 0.65 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 13 | 0.65 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 15 | 0.65 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 10 | 0.65 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 10 | 0.65 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 10 | 0.65 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 10 | 0.65 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 2 | 0.65 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 2 | 0.65 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 2 | 0.65 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 1 | 0.64 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 20 | 0.64 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 9 | 0.64 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 13 | 0.64 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 20 | 0.64 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 18 | 0.64 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 18 | 0.64 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 1 | 0.64 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 1 | 0.64 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 1 | 0.64 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 1 | 0.64 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 3 | 0.64 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 8 | 0.63 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 8 | 0.63 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 8 | 0.63 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 8 | 0.63 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 8 | 0.63 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 8 | 0.63 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 14 | 0.63 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 17 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 17 | 0.63 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 17 | 0.63 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 20 | 0.63 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 20 | 0.63 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 20 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 3 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 3 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 3 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 3 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 3 | 0.63 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 3 | 0.63 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 4 | 0.63 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 4 | 0.63 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 18 | 0.63 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 18 | 0.63 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 18 | 0.63 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 7 | 0.63 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 10 | 0.63 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 5 | 0.63 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 4 | 0.62 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 7 | 0.62 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 17 | 0.62 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 19 | 0.62 |
| (1,1798) | 1:A:86:ASP:HA | 1:A:90:ARG:HG2 | 1 | 0.62 |
| (1,1798) | 1:A:86:ASP:HA | 1:A:90:ARG:HG3 | 1 | 0.62 |
| (1,1772) | 1:A:81:ARG:H | 1:A:81:ARG:HG2 | 20 | 0.62 |
| (1,1772) | 1:A:81:ARG:H | 1:A:81:ARG:HG3 | 20 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE21 | 6 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HE22 | 6 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE21 | 6 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HE22 | 6 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE21 | 6 | 0.62 |
| (1,1756) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HE22 | 6 | 0.62 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB2 | 9 | 0.62 |
| (1,1587) | 1:A:35:GLY:HA3 | 1:A:40:LEU:HB3 | 9 | 0.62 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 16 | 0.62 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 16 | 0.62 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD11 | 2 | 0.62 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD12 | 2 | 0.62 |
| (1,1288) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD13 | 2 | 0.62 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 3 | 0.62 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 20 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 4 | 0.62 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 11 | 0.61 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 20 | 0.61 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 20 | 0.61 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 20 | 0.61 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 20 | 0.61 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 20 | 0.61 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 20 | 0.61 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 1 | 0.61 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 1 | 0.61 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 1 | 0.61 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 5 | 0.61 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 13 | 0.61 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 19 | 0.61 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 19 | 0.61 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 12 | 0.61 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE1 | 9 | 0.61 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE2 | 9 | 0.61 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 6 | 0.61 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 20 | 0.6 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 18 | 0.6 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 18 | 0.6 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 18 | 0.6 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 14 | 0.6 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 17 | 0.6 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 17 | 0.6 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 17 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 4 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 4 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 4 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 4 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 4 | 0.6 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 4 | 0.6 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 18 | 0.6 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 18 | 0.6 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 13 | 0.6 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 13 | 0.6 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 19 | 0.6 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 8 | 0.6 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 5 | 0.59 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 5 | 0.59 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 5 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 13 | 0.59 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 19 | 0.59 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 19 | 0.59 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 19 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 19 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 19 | 0.59 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 19 | 0.59 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 14 | 0.59 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 14 | 0.59 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 2 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 12 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 13 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 14 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 18 | 0.59 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 18 | 0.59 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 18 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 18 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 18 | 0.59 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 18 | 0.59 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 7 | 0.59 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 7 | 0.59 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 15 | 0.59 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 15 | 0.59 |
| (1,1260) | 1:A:76:LEU:HD11 | 1:A:92:GLN:HA | 11 | 0.59 |
| (1,1260) | 1:A:76:LEU:HD12 | 1:A:92:GLN:HA | 11 | 0.59 |
| (1,1260) | 1:A:76:LEU:HD13 | 1:A:92:GLN:HA | 11 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 6 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 6 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 6 | 0.59 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 6 | 0.59 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 20 | 0.59 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 20 | 0.59 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 20 | 0.59 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 20 | 0.58 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 20 | 0.58 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 20 | 0.58 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 17 | 0.58 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 17 | 0.58 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 17 | 0.58 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 10 | 0.58 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 10 | 0.58 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 10 | 0.58 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 5 | 0.58 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 1 | 0.58 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 4 | 0.58 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 1 | 0.58 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 3 | 0.58 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 3 | 0.58 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 3 | 0.58 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 3 | 0.58 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 8 | 0.57 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 7 | 0.57 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 7 | 0.57 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 8 | 0.57 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 8 | 0.57 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 8 | 0.57 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 8 | 0.57 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 8 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 8 | 0.57 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 1 | 0.57 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 1 | 0.57 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 6 | 0.57 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 6 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 9 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 9 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 9 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 9 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 9 | 0.57 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 9 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 13 | 0.57 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 13 | 0.57 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 16 | 0.57 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 16 | 0.57 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 7 | 0.57 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 7 | 0.57 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 1 | 0.57 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 1 | 0.57 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 1 | 0.57 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 20 | 0.57 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 6 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 12 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 12 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 12 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 14 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 14 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 14 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 15 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 15 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 15 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 19 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 19 | 0.57 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 19 | 0.57 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 2 | 0.56 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 7 | 0.56 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 17 | 0.56 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 13 | 0.56 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 13 | 0.56 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 13 | 0.56 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 17 | 0.56 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 2 | 0.56 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 2 | 0.56 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 2 | 0.56 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 9 | 0.56 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 9 | 0.56 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 9 | 0.56 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 4 | 0.56 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 7 | 0.56 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 16 | 0.56 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 16 | 0.56 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 16 | 0.56 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 16 | 0.56 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 16 | 0.56 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 16 | 0.56 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 20 | 0.56 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 20 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 14 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 14 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 14 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 14 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 14 | 0.56 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 14 | 0.56 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 10 | 0.56 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 10 | 0.56 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 12 | 0.56 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 12 | 0.56 |
| (1,1236) | 1:A:40:LEU:HA | 1:A:66:PHE:HZ | 9 | 0.56 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 4 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 6 | 0.56 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 6 | 0.56 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 6 | 0.56 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 10 | 0.56 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 10 | 0.56 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 10 | 0.56 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 7 | 0.55 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 11 | 0.55 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 14 | 0.55 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 14 | 0.55 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 14 | 0.55 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 15 | 0.55 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 3 | 0.55 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 9 | 0.55 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 6 | 0.55 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 5 | 0.55 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 11 | 0.55 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 19 | 0.55 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 19 | 0.55 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 19 | 0.55 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 19 | 0.55 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 19 | 0.55 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 19 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD11 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD12 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD13 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD21 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD22 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD23 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD11 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD12 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD13 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD21 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD22 | 3 | 0.55 |
| (1,1644) | 1:A:50:MET:HG3 | 1:A:61:LEU:HD23 | 3 | 0.55 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 5 | 0.55 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 5 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 10 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 10 | 0.55 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 10 | 0.55 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 2 | 0.55 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 2 | 0.55 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 11 | 0.55 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 11 | 0.55 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 11 | 0.55 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 11 | 0.55 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 1 | 0.55 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 1 | 0.55 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 1 | 0.55 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 4 | 0.55 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 4 | 0.55 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 4 | 0.55 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 11 | 0.55 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 11 | 0.55 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 11 | 0.55 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 11 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 4 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 4 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 4 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 5 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 5 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 5 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 11 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 11 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 11 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 17 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 17 | 0.55 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 17 | 0.55 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 9 | 0.54 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 9 | 0.54 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 9 | 0.54 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 7 | 0.54 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 7 | 0.54 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 7 | 0.54 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 7 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 7 | 0.54 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 7 | 0.54 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 8 | 0.54 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 8 | 0.54 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 8 | 0.54 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 8 | 0.54 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 14 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 13 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 13 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 13 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 16 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 16 | 0.54 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 16 | 0.54 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 19 | 0.53 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 11 | 0.53 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 11 | 0.53 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 11 | 0.53 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 11 | 0.53 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 11 | 0.53 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 11 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 7 | 0.53 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 7 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 9 | 0.53 |
| (1,1377) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG2 | 7 | 0.53 |
| (1,1377) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG2 | 7 | 0.53 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 2 | 0.53 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 1 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 1 | 0.53 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 1 | 0.53 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 16 | 0.52 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 16 | 0.52 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 16 | 0.52 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 16 | 0.52 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 16 | 0.52 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 16 | 0.52 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 19 | 0.52 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 19 | 0.52 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 19 | 0.52 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 20 | 0.52 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 20 | 0.52 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 6 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 2 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 2 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 2 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 2 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 2 | 0.52 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 2 | 0.52 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 16 | 0.52 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 2 | 0.52 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 3 | 0.52 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 9 | 0.52 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 17 | 0.51 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 17 | 0.51 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 17 | 0.51 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 17 | 0.51 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 17 | 0.51 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 17 | 0.51 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 18 | 0.51 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 18 | 0.51 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 18 | 0.51 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 18 | 0.51 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 15 | 0.51 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 15 | 0.51 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 3 | 0.51 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 3 | 0.51 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 3 | 0.51 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 3 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD2 | 9 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD2 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD2 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD2 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD2 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD1 | 9 | 0.51 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD2 | 9 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 19 | 0.51 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 19 | 0.51 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 8 | 0.51 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 8 | 0.51 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 8 | 0.51 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 8 | 0.51 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 8 | 0.51 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 8 | 0.51 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 2 | 0.51 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 10 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD1 | 9 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD2 | 9 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD1 | 9 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD2 | 9 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD1 | 9 | 0.51 |
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD2 | 9 | 0.51 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 6 | 0.51 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 5 | 0.5 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 7 | 0.5 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 11 | 0.5 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 19 | 0.5 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 19 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 19 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD11 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD12 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD13 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD21 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD22 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1604) | 1:A:40:LEU:HD23 | 1:A:45:ILE:HG12 | 20 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 12 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 12 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 12 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 12 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 12 | 0.5 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 12 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD11 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD12 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD13 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD21 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD22 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1527) | 1:A:27:LEU:HD23 | 1:A:31:LYS:H | 9 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 4 | 0.5 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 4 | 0.5 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 17 | 0.5 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 17 | 0.5 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 5 | 0.5 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 5 | 0.5 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 11 | 0.5 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 11 | 0.5 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 19 | 0.5 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 9 | 0.5 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 1 | 0.5 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 12 | 0.5 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 13 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 13 | 0.49 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 13 | 0.49 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 20 | 0.49 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 20 | 0.49 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 20 | 0.49 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 2 | 0.49 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 4 | 0.49 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG21 | 7 | 0.49 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG22 | 7 | 0.49 |
| (1,590) | 1:A:34:LEU:HB3 | 1:A:82:ILE:HG23 | 7 | 0.49 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 9 | 0.49 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 9 | 0.49 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 1 | 0.49 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 10 | 0.49 |
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG2 | 15 | 0.49 |
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG3 | 15 | 0.49 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 6 | 0.49 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 6 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 17 | 0.49 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 17 | 0.49 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 2 | 0.49 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 2 | 0.49 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 2 | 0.49 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 17 | 0.49 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 2 | 0.49 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 6 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 5 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 5 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 5 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 7 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 7 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 7 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 14 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 14 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 14 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 17 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 17 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 17 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 18 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 18 | 0.48 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 18 | 0.48 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 15 | 0.48 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 1 | 0.48 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 1 | 0.48 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 1 | 0.48 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 18 | 0.48 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 18 | 0.48 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 18 | 0.48 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 18 | 0.48 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 18 | 0.48 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 18 | 0.48 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 7 | 0.48 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 7 | 0.48 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 7 | 0.48 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 16 | 0.48 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 16 | 0.48 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 16 | 0.48 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 1 | 0.48 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 3 | 0.48 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 8 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 15 | 0.48 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 15 | 0.48 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 10 | 0.48 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 10 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1477) | 1:A:22:LEU:HD11 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1477) | 1:A:22:LEU:HD12 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1477) | 1:A:22:LEU:HD13 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1477) | 1:A:22:LEU:HD21 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1477) | 1:A:22:LEU:HD22 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1477) | 1:A:22:LEU:HD23 | 1:A:23:GLU:H | 20 | 0.48 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 6 | 0.48 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 6 | 0.48 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 2 | 0.48 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE1 | 4 | 0.48 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE2 | 4 | 0.48 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 4 | 0.48 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 19 | 0.48 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 14 | 0.47 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 11 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 3 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 3 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 3 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 12 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 12 | 0.47 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 12 | 0.47 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 18 | 0.47 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 12 | 0.47 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 12 | 0.47 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 12 | 0.47 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 12 | 0.47 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 12 | 0.47 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 12 | 0.47 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 15 | 0.47 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 17 | 0.47 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 17 | 0.47 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 17 | 0.47 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 17 | 0.47 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 17 | 0.47 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 17 | 0.47 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 10 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 10 | 0.47 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 10 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 9 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 9 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 9 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 9 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 9 | 0.47 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 9 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 1 | 0.47 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 1 | 0.47 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 16 | 0.47 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 16 | 0.47 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 16 | 0.47 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 16 | 0.47 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 16 | 0.47 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 16 | 0.47 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 16 | 0.47 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 16 | 0.47 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 1 | 0.47 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 10 | 0.47 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 11 | 0.47 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 18 | 0.46 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 5 | 0.46 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 7 | 0.46 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD11 | 11 | 0.46 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD12 | 11 | 0.46 |
| (1,328) | 1:A:50:MET:HG2 | 1:A:61:LEU:HD13 | 11 | 0.46 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 5 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 18 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 18 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 18 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 18 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 18 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 18 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 19 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 19 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 19 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 19 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 19 | 0.46 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 19 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 20 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 20 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 20 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 20 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 20 | 0.46 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 20 | 0.46 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 8 | 0.46 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 8 | 0.46 |
| (1,1377) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG2 | 3 | 0.46 |
| (1,1377) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG2 | 3 | 0.46 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 10 | 0.46 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 9 | 0.45 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 6 | 0.45 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 6 | 0.45 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 6 | 0.45 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 13 | 0.45 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 13 | 0.45 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 13 | 0.45 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG21 | 7 | 0.45 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG22 | 7 | 0.45 |
| (1,557) | 1:A:33:TYR:HE1 | 1:A:82:ILE:HG23 | 7 | 0.45 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG21 | 7 | 0.45 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG22 | 7 | 0.45 |
| (1,557) | 1:A:33:TYR:HE2 | 1:A:82:ILE:HG23 | 7 | 0.45 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 4 | 0.45 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 6 | 0.45 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 12 | 0.45 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 12 | 0.45 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 12 | 0.45 |
| (1,22) | 1:A:46:PRO:HA | 1:A:47:TRP:HB3 | 14 | 0.45 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 3 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 3 | 0.45 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 3 | 0.45 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 17 | 0.45 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 17 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD11 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD12 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD13 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD21 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD22 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG2 | 20 | 0.45 |
| (1,1478) | 1:A:22:LEU:HD23 | 1:A:23:GLU:HG3 | 20 | 0.45 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 13 | 0.45 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 13 | 0.45 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 18 | 0.45 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 11 | 0.45 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 12 | 0.45 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 19 | 0.45 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 20 | 0.45 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 7 | 0.45 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 13 | 0.45 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 11 | 0.44 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 11 | 0.44 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 11 | 0.44 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 2 | 0.44 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 12 | 0.44 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 3 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 3 | 0.44 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 4 | 0.44 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 4 | 0.44 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 1 | 0.44 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 1 | 0.44 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 3 | 0.44 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 3 | 0.44 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 3 | 0.44 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 3 | 0.44 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 20 | 0.44 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 7 | 0.43 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 10 | 0.43 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 14 | 0.43 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 4 | 0.43 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 4 | 0.43 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 4 | 0.43 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 6 | 0.43 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 6 | 0.43 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 6 | 0.43 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 16 | 0.43 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 16 | 0.43 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 16 | 0.43 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG21 | 20 | 0.43 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG22 | 20 | 0.43 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG23 | 20 | 0.43 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 18 | 0.43 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 18 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 12 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 12 | 0.43 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 12 | 0.43 |
| (1,1378) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG3 | 14 | 0.43 |
| (1,1378) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG3 | 14 | 0.43 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 8 | 0.43 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 19 | 0.42 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 18 | 0.42 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 3 | 0.42 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 4 | 0.42 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 16 | 0.42 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 10 | 0.42 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 10 | 0.42 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 10 | 0.42 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 10 | 0.42 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 20 | 0.42 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 10 | 0.42 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 10 | 0.42 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 10 | 0.42 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 11 | 0.42 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 11 | 0.42 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 11 | 0.42 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 15 | 0.42 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 15 | 0.42 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 15 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 9 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 9 | 0.42 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 9 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 17 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 17 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 17 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 17 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 17 | 0.42 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 17 | 0.42 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 13 | 0.42 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 13 | 0.42 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 15 | 0.42 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 15 | 0.42 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 15 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 16 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD11 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD12 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD13 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD21 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD22 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1383) | 1:A:12:LEU:HD23 | 1:A:59:ALA:H | 5 | 0.42 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 14 | 0.42 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 2 | 0.41 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 2 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 2 | 0.41 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 2 | 0.41 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 4 | 0.41 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 13 | 0.41 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 2 | 0.41 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 2 | 0.41 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 2 | 0.41 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 6 | 0.41 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 6 | 0.41 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 6 | 0.41 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 6 | 0.41 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 6 | 0.41 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 6 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 16 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 16 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 16 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 16 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 16 | 0.41 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 16 | 0.41 |
| (1,1377) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG2 | 15 | 0.41 |
| (1,1377) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG2 | 15 | 0.41 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 17 | 0.41 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 17 | 0.41 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 14 | 0.41 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 14 | 0.41 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 14 | 0.41 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 14 | 0.41 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 15 | 0.41 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 12 | 0.4 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 12 | 0.4 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 12 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 4 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 4 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 4 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 8 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 8 | 0.4 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 8 | 0.4 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 12 | 0.4 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 6 | 0.4 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 16 | 0.4 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 16 | 0.4 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 16 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 6 | 0.4 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 13 | 0.4 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 10 | 0.4 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 10 | 0.4 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 10 | 0.4 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 1 | 0.4 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 1 | 0.4 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 1 | 0.4 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 1 | 0.4 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 1 | 0.4 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 1 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 5 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 5 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 5 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 5 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 5 | 0.4 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 5 | 0.4 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 6 | 0.4 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 6 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 7 | 0.4 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 7 | 0.4 |
| (1,878) | 1:A:76:LEU:HD11 | 1:A:92:GLN:H | 14 | 0.39 |
| (1,878) | 1:A:76:LEU:HD12 | 1:A:92:GLN:H | 14 | 0.39 |
| (1,878) | 1:A:76:LEU:HD13 | 1:A:92:GLN:H | 14 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 9 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 15 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 15 | 0.39 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 15 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 15 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 15 | 0.39 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 15 | 0.39 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 2 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 2 | 0.39 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 5 | 0.39 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 10 | 0.39 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 10 | 0.39 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 10 | 0.39 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 10 | 0.39 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 10 | 0.39 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 10 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 2 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 5 | 0.39 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 5 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 6 | 0.39 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 11 | 0.39 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 11 | 0.39 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA2 | 16 | 0.39 |
| (1,1366) | 1:A:9:ARG:HD2 | 1:A:11:GLY:HA3 | 16 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA2 | 16 | 0.39 |
| (1,1366) | 1:A:9:ARG:HD3 | 1:A:11:GLY:HA3 | 16 | 0.39 |
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 14 | 0.39 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 4 | 0.39 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 18 | 0.39 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 18 | 0.39 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 18 | 0.39 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 18 | 0.39 |
| (1,1077) | 1:A:76:LEU:HD11 | 1:A:91:GLY:H | 8 | 0.39 |
| (1,1077) | 1:A:76:LEU:HD12 | 1:A:91:GLY:H | 8 | 0.39 |
| (1,1077) | 1:A:76:LEU:HD13 | 1:A:91:GLY:H | 8 | 0.39 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 16 | 0.38 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 16 | 0.38 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 16 | 0.38 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 19 | 0.38 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 7 | 0.38 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 19 | 0.38 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 15 | 0.38 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 15 | 0.38 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 15 | 0.38 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 15 | 0.38 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 15 | 0.38 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 15 | 0.38 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 11 | 0.38 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 11 | 0.38 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 15 | 0.38 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 15 | 0.38 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 9 | 0.38 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 9 | 0.38 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 9 | 0.38 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 9 | 0.38 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD11 | 12 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD12 | 12 | 0.38 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD13 | 12 | 0.38 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD21 | 12 | 0.38 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD22 | 12 | 0.38 |
| (1,1630) | 1:A:48:GLY:HA2 | 1:A:61:LEU:HD23 | 12 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 11 | 0.38 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 11 | 0.38 |
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 2 | 0.38 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 15 | 0.38 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 15 | 0.38 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 15 | 0.38 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 15 | 0.38 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 1 | 0.38 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 16 | 0.38 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 20 | 0.38 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 18 | 0.37 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 19 | 0.37 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 19 | 0.37 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 19 | 0.37 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 11 | 0.37 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 11 | 0.37 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 11 | 0.37 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 17 | 0.37 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 20 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 4 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 4 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 13 | 0.37 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 2 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 13 | 0.37 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 14 | 0.37 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 14 | 0.37 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 5 | 0.37 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 5 | 0.37 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 5 | 0.37 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 5 | 0.37 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 5 | 0.37 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 5 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD11 | 1:A:59:ALA:H | 17 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD12 | 1:A:59:ALA:H | 17 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD13 | 1:A:59:ALA:H | 17 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD21 | 1:A:59:ALA:H | 17 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD22 | 1:A:59:ALA:H | 17 | 0.37 |
| (1,1383) | 1:A:12:LEU:HD23 | 1:A:59:ALA:H | 17 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1224) | 1:A:72:TRP:HZ3 | 1:A:76:LEU:HB2 | 4 | 0.37 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 15 | 0.37 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 13 | 0.36 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 18 | 0.36 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 8 | 0.36 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 8 | 0.36 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 8 | 0.36 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 10 | 0.36 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 10 | 0.36 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 10 | 0.36 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 19 | 0.36 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 19 | 0.36 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 19 | 0.36 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 6 | 0.36 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 6 | 0.36 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 6 | 0.36 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 6 | 0.36 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 6 | 0.36 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 6 | 0.36 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD1 | 10 | 0.36 |
| (1,424) | 1:A:32:LEU:HG | 1:A:33:TYR:HD2 | 10 | 0.36 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 20 | 0.36 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 20 | 0.36 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 18 | 0.36 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 18 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1533) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG3 | 6 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 10 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 10 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 10 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 10 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 10 | 0.36 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 10 | 0.36 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 18 | 0.36 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 5 | 0.36 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 5 | 0.36 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 5 | 0.36 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 7 | 0.36 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 17 | 0.36 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 3 | 0.35 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 13 | 0.35 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 19 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 2 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 2 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 2 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 17 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 17 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 17 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 20 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 20 | 0.35 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 20 | 0.35 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 15 | 0.35 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 15 | 0.35 |
| (1,502) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 15 | 0.35 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 10 | 0.35 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 8 | 0.35 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 8 | 0.35 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 17 | 0.35 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 17 | 0.35 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 3 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 5 | 0.35 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 11 | 0.35 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 11 | 0.35 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 5 | 0.35 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 18 | 0.35 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 12 | 0.34 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 17 | 0.34 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 20 | 0.34 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 9 | 0.34 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 11 | 0.34 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 11 | 0.34 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 11 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 3 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 3 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 3 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 6 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 6 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 6 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 7 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 7 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 7 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 9 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 9 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 9 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 16 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 16 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 16 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 18 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 18 | 0.34 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 18 | 0.34 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 1 | 0.34 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 14 | 0.34 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 5 | 0.34 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 9 | 0.34 |
| (1,324) | 1:A:89:GLU:HA | 1:A:92:GLN:HG2 | 5 | 0.34 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 16 | 0.34 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 16 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 8 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 8 | 0.34 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 8 | 0.34 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 7 | 0.34 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 7 | 0.34 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 13 | 0.34 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 16 | 0.34 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 13 | 0.34 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 1 | 0.33 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 3 | 0.33 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 17 | 0.33 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 13 | 0.33 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 13 | 0.33 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 13 | 0.33 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 15 | 0.33 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 15 | 0.33 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 15 | 0.33 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 18 | 0.33 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 18 | 0.33 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 18 | 0.33 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 4 | 0.33 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 4 | 0.33 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 4 | 0.33 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 11 | 0.33 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 11 | 0.33 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 11 | 0.33 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 19 | 0.33 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 12 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 12 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 14 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 19 | 0.33 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 19 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 5 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 18 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 18 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 18 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 18 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 18 | 0.33 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 18 | 0.33 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 5 | 0.33 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 5 | 0.33 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 5 | 0.33 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 5 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 5 | 0.33 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 5 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1389) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 7 | 0.33 |
| (1,1377) | 1:A:12:LEU:HB2 | 1:A:60:GLN:HG2 | 13 | 0.33 |
| (1,1377) | 1:A:12:LEU:HB3 | 1:A:60:GLN:HG2 | 13 | 0.33 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 11 | 0.33 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 15 | 0.33 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 3 | 0.33 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 3 | 0.33 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 3 | 0.33 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 18 | 0.33 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 20 | 0.32 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 6 | 0.32 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 17 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 14 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 14 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 14 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 17 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 17 | 0.32 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 17 | 0.32 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 5 | 0.32 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 16 | 0.32 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 5 | 0.32 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 5 | 0.32 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 5 | 0.32 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 3 | 0.32 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 3 | 0.32 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 3 | 0.32 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 7 | 0.32 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 7 | 0.32 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 7 | 0.32 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 1 | 0.32 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 1 | 0.32 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 1 | 0.32 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 12 | 0.32 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 12 | 0.32 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 12 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 19 | 0.32 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 19 | 0.32 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 19 | 0.32 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 6 | 0.32 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 6 | 0.32 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 6 | 0.32 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 6 | 0.32 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 6 | 0.32 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 6 | 0.32 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 8 | 0.32 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 8 | 0.32 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 8 | 0.32 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 13 | 0.32 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 17 | 0.32 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 6 | 0.32 |
| (1,35) | 1:A:76:LEU:HD11 | 1:A:88:TRP:HA | 3 | 0.32 |
| (1,35) | 1:A:76:LEU:HD12 | 1:A:88:TRP:HA | 3 | 0.32 |
| (1,35) | 1:A:76:LEU:HD13 | 1:A:88:TRP:HA | 3 | 0.32 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 5 | 0.32 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 5 | 0.32 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 12 | 0.32 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 12 | 0.32 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 12 | 0.32 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 12 | 0.32 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 14 | 0.32 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 14 | 0.32 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 14 | 0.32 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 14 | 0.32 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 11 | 0.32 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 11 | 0.32 |
| (1,1598) | 1:A:40:LEU:HB2 | 1:A:43:GLY:H | 4 | 0.32 |
| (1,1598) | 1:A:40:LEU:HB3 | 1:A:43:GLY:H | 4 | 0.32 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 15 | 0.32 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 15 | 0.32 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 15 | 0.32 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 15 | 0.32 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 15 | 0.32 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 15 | 0.32 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 9 | 0.32 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 9 | 0.32 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD11 | 2 | 0.32 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD12 | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD13 | 2 | 0.32 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD11 | 2 | 0.32 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD12 | 2 | 0.32 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD13 | 2 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 9 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 9 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 9 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 9 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 9 | 0.32 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 9 | 0.32 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB2 | 4 | 0.32 |
| (1,1174) | 1:A:72:TRP:HZ2 | 1:A:94:GLU:HB3 | 4 | 0.32 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 1 | 0.32 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 2 | 0.32 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 10 | 0.31 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 6 | 0.31 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 6 | 0.31 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 6 | 0.31 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 12 | 0.31 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 12 | 0.31 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 12 | 0.31 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 15 | 0.31 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 15 | 0.31 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 15 | 0.31 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 2 | 0.31 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 2 | 0.31 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 2 | 0.31 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 16 | 0.31 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 15 | 0.31 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 15 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD11 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD12 | 8 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD13 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD21 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD22 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD23 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD11 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD12 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD13 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD21 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD22 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD23 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD11 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD12 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD13 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD21 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD22 | 8 | 0.31 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD23 | 8 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 16 | 0.31 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 16 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 19 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 19 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 19 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 19 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 19 | 0.31 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 19 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 4 | 0.31 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 18 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 8 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 8 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 15 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 15 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 16 | 0.31 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 16 | 0.31 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 6 | 0.31 |
| (1,893) | 1:A:32:LEU:H | 1:A:32:LEU:HG | 10 | 0.3 |
| (1,893) | 1:A:32:LEU:H | 1:A:32:LEU:HG | 20 | 0.3 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 17 | 0.3 |
| (1,874) | 1:A:89:GLU:HA | 1:A:92:GLN:H | 16 | 0.3 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 9 | 0.3 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 9 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 1 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 1 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 1 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 9 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 9 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 9 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 20 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 20 | 0.3 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 20 | 0.3 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 2 | 0.3 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 2 | 0.3 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 2 | 0.3 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 15 | 0.3 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 15 | 0.3 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 15 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 10 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 10 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 10 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 11 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 11 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 11 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 12 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 12 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 12 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 13 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 13 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 13 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 14 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 14 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 14 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 19 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 19 | 0.3 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 19 | 0.3 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 2 | 0.3 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 2 | 0.3 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 2 | 0.3 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 5 | 0.3 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 5 | 0.3 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 5 | 0.3 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 10 | 0.3 |
| (1,316) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 19 | 0.3 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 4 | 0.3 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 4 | 0.3 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 4 | 0.3 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 4 | 0.3 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 4 | 0.3 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 4 | 0.3 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 12 | 0.3 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 12 | 0.3 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 6 | 0.3 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 6 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG3 | 7 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1533) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG3 | 16 | 0.3 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 4 | 0.3 |
| (1,1292) | 1:A:79:PHE:HD1 | 1:A:84:ARG:HB2 | 3 | 0.3 |
| (1,1292) | 1:A:79:PHE:HD2 | 1:A:84:ARG:HB2 | 3 | 0.3 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 7 | 0.3 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD1 | 4 | 0.3 |
| (1,1157) | 1:A:45:ILE:HD11 | 1:A:66:PHE:HD2 | 4 | 0.3 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD1 | 4 | 0.3 |
| (1,1157) | 1:A:45:ILE:HD12 | 1:A:66:PHE:HD2 | 4 | 0.3 |
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD1 | 4 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1157) | 1:A:45:ILE:HD13 | 1:A:66:PHE:HD2 | 4 | 0.3 |
| (1,864) | 1:A:12:LEU:HB2 | 1:A:13:CYS:H | 20 | 0.29 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 10 | 0.29 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 10 | 0.29 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 19 | 0.29 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 19 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 1 | 0.29 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 1 | 0.29 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 1 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 2 | 0.29 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 2 | 0.29 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 2 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 3 | 0.29 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 3 | 0.29 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 3 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 17 | 0.29 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 17 | 0.29 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 17 | 0.29 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 18 | 0.29 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 18 | 0.29 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 18 | 0.29 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 5 | 0.29 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 5 | 0.29 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 5 | 0.29 |
| (1,439) | 1:A:87:LEU:H | 1:A:87:LEU:HG | 6 | 0.29 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 8 | 0.29 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 4 | 0.29 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 4 | 0.29 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 4 | 0.29 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB2 | 14 | 0.29 |
| (1,1585) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HB3 | 14 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 16 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 16 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 16 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 16 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 16 | 0.29 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 16 | 0.29 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 15 | 0.29 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 15 | 0.29 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 15 | 0.29 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 15 | 0.29 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 15 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1389) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 15 | 0.29 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 13 | 0.29 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 13 | 0.29 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 13 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD11 | 10 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD12 | 10 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD13 | 10 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD11 | 10 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD12 | 10 | 0.29 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD13 | 10 | 0.29 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 16 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 18 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 18 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 18 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 18 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 18 | 0.29 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 18 | 0.29 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 9 | 0.29 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 9 | 0.29 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 9 | 0.29 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 5 | 0.28 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 9 | 0.28 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 9 | 0.28 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 9 | 0.28 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 14 | 0.28 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 14 | 0.28 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 14 | 0.28 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 1 | 0.28 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 1 | 0.28 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 1 | 0.28 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD11 | 1 | 0.28 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD12 | 1 | 0.28 |
| (1,508) | 1:A:76:LEU:HA | 1:A:76:LEU:HD13 | 1 | 0.28 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD11 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD12 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD13 | 17 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD11 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD12 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD13 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD11 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD12 | 17 | 0.28 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD13 | 17 | 0.28 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 12 | 0.28 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 12 | 0.28 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 12 | 0.28 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 18 | 0.28 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 10 | 0.28 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 18 | 0.28 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 18 | 0.28 |
| (1,1758) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 18 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 3 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 4 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 4 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 4 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 4 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 4 | 0.28 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 4 | 0.28 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG2 | 18 | 0.28 |
| (1,1303) | 1:A:78:THR:HA | 1:A:81:ARG:HG3 | 18 | 0.28 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 20 | 0.28 |
| (1,1272) | 1:A:18:TYR:HE1 | 1:A:91:GLY:HA3 | 1 | 0.28 |
| (1,1272) | 1:A:18:TYR:HE2 | 1:A:91:GLY:HA3 | 1 | 0.28 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 12 | 0.28 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 14 | 0.27 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 10 | 0.27 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 10 | 0.27 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 10 | 0.27 |
| (1,626) | 1:A:25:VAL:HG11 | 1:A:27:LEU:HB2 | 17 | 0.27 |
| (1,626) | 1:A:25:VAL:HG12 | 1:A:27:LEU:HB2 | 17 | 0.27 |
| (1,626) | 1:A:25:VAL:HG13 | 1:A:27:LEU:HB2 | 17 | 0.27 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 5 | 0.27 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 5 | 0.27 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 5 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 12 | 0.27 |
| (1,378) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HB2 | 11 | 0.27 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 13 | 0.27 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 13 | 0.27 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 13 | 0.27 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 8 | 0.27 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 8 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 9 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 9 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 9 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 9 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 9 | 0.27 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 9 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 5 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 5 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 5 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 5 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 5 | 0.27 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 5 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE1 | 6 | 0.27 |
| (1,1574) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HE2 | 6 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 1 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 1 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 7 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 7 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 13 | 0.27 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 13 | 0.27 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 9 | 0.27 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 7 | 0.27 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 7 | 0.27 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 7 | 0.27 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 7 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD11 | 20 | 0.27 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD12 | 20 | 0.27 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD13 | 20 | 0.27 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD11 | 20 | 0.27 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD12 | 20 | 0.27 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD13 | 20 | 0.27 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 16 | 0.27 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 8 | 0.27 |
| (1,1105) | 1:A:60:GLN:HG2 | 1:A:63:ILE:H | 19 | 0.27 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 13 | 0.26 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 11 | 0.26 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 11 | 0.26 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 13 | 0.26 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 13 | 0.26 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 1 | 0.26 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 8 | 0.26 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 8 | 0.26 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 8 | 0.26 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 8 | 0.26 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 17 | 0.26 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 17 | 0.26 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 17 | 0.26 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 8 | 0.26 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 8 | 0.26 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 8 | 0.26 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 11 | 0.26 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 11 | 0.26 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 11 | 0.26 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 11 | 0.26 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 17 | 0.26 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 17 | 0.26 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 17 | 0.26 |
| (1,317) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 8 | 0.26 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 13 | 0.26 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 13 | 0.26 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB2 | 13 | 0.26 |
| (1,1782) | 1:A:84:ARG:H | 1:A:85:LYS:HB3 | 13 | 0.26 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 18 | 0.26 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 18 | 0.26 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 18 | 0.26 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 18 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD11 | 19 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD12 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD13 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD21 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD22 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD23 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD11 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD12 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD13 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD21 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD22 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD23 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD11 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD12 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD13 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD21 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD22 | 19 | 0.26 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD23 | 19 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD11 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD12 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD13 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD21 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD22 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD1 | 20 | 0.26 |
| (1,1573) | 1:A:32:LEU:HD23 | 1:A:33:TYR:HD2 | 20 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 7 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 7 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 7 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 7 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 7 | 0.26 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 7 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 3 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG2 | 12 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG2 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG2 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG2 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG2 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG2 | 12 | 0.26 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG3 | 12 | 0.26 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 18 | 0.26 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 18 | 0.26 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 18 | 0.26 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 18 | 0.26 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 18 | 0.26 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 18 | 0.26 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG2 | 6 | 0.26 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG3 | 6 | 0.26 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 8 | 0.26 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 17 | 0.26 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 17 | 0.26 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 17 | 0.26 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 20 | 0.26 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 20 | 0.26 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 20 | 0.26 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 1 | 0.25 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 1 | 0.25 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 1 | 0.25 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 8 | 0.25 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 8 | 0.25 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 15 | 0.25 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 18 | 0.25 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 18 | 0.25 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 18 | 0.25 |
| (1,59) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 2 | 0.25 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 2 | 0.25 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 2 | 0.25 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 2 | 0.25 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 3 | 0.25 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 3 | 0.25 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 3 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 3 | 0.25 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 3 | 0.25 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 3 | 0.25 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 3 | 0.25 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 12 | 0.25 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG2 | 2 | 0.25 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG3 | 2 | 0.25 |
| (1,1623) | 1:A:46:PRO:HB2 | 1:A:47:TRP:HH2 | 7 | 0.25 |
| (1,1623) | 1:A:46:PRO:HB3 | 1:A:47:TRP:HH2 | 7 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD11 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD12 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD13 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD21 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD22 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD23 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD11 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD12 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD13 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD21 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD22 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD23 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD11 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD12 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD13 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD21 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD22 | 4 | 0.25 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD23 | 4 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 16 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 16 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 16 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 16 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 16 | 0.25 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 16 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 8 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG2 | 15 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG2 | 15 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG2 | 15 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1532) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG2 | 15 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG2 | 15 | 0.25 |
| (1,1532) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG2 | 15 | 0.25 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 9 | 0.25 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 9 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 5 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 5 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 5 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 12 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 12 | 0.25 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 12 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 6 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 16 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 16 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 16 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 16 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 16 | 0.25 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 16 | 0.25 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 4 | 0.25 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 4 | 0.25 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 4 | 0.25 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 8 | 0.24 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 5 | 0.24 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 20 | 0.24 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 20 | 0.24 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 20 | 0.24 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 9 | 0.24 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 9 | 0.24 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 9 | 0.24 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 8 | 0.24 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 8 | 0.24 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 8 | 0.24 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 15 | 0.24 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 15 | 0.24 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 15 | 0.24 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 20 | 0.24 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 20 | 0.24 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 16 | 0.24 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 16 | 0.24 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 16 | 0.24 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 2 | 0.24 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 2 | 0.24 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 2 | 0.24 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 15 | 0.24 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 15 | 0.24 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 15 | 0.24 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD11 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD12 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD13 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD11 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD12 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD13 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD11 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD12 | 2 | 0.24 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD13 | 2 | 0.24 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 5 | 0.24 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 5 | 0.24 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 5 | 0.24 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 7 | 0.24 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 8 | 0.24 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG2 | 17 | 0.24 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG3 | 17 | 0.24 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG2 | 6 | 0.24 |
| (1,190) | 1:A:91:GLY:HA3 | 1:A:94:GLU:HG3 | 6 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 18 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 18 | 0.24 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 18 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 4 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 4 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 4 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 4 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 4 | 0.24 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 4 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD11 | 10 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD12 | 10 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD13 | 10 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD21 | 10 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD22 | 10 | 0.24 |
| (1,1634) | 1:A:49:SER:HA | 1:A:61:LEU:HD23 | 10 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 8 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 8 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 8 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 8 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 8 | 0.24 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 8 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD11 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD12 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD13 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD21 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD22 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1385) | 1:A:12:LEU:HD23 | 1:A:60:GLN:H | 1 | 0.24 |
| (1,1294) | 1:A:83:ASN:HA | 1:A:84:ARG:HB2 | 14 | 0.24 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 19 | 0.24 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 19 | 0.24 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 19 | 0.24 |
| (1,1217) | 1:A:64:THR:HG21 | 1:A:65:HIS:HD2 | 3 | 0.24 |
| (1,1217) | 1:A:64:THR:HG22 | 1:A:65:HIS:HD2 | 3 | 0.24 |
| (1,1217) | 1:A:64:THR:HG23 | 1:A:65:HIS:HD2 | 3 | 0.24 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 14 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 20 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 20 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 20 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 20 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 20 | 0.24 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1152) | 1:A:47:TRP:HA | 1:A:47:TRP:HE3 | 5 | 0.24 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 9 | 0.23 |
| (1,773) | 1:A:95:ASP:HA | 1:A:96:LEU:H | 13 | 0.23 |
| (1,704) | 1:A:73:ARG:HA | 1:A:75:ALA:H | 9 | 0.23 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 7 | 0.23 |
| (1,651) | 1:A:63:ILE:HB | 1:A:71:ALA:H | 20 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 2 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 17 | 0.23 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 17 | 0.23 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 5 | 0.23 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 5 | 0.23 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 5 | 0.23 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 17 | 0.23 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 17 | 0.23 |
| (1,462) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 17 | 0.23 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 4 | 0.23 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 4 | 0.23 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 4 | 0.23 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG21 | 8 | 0.23 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG22 | 8 | 0.23 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG23 | 8 | 0.23 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 6 | 0.23 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 8 | 0.23 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 16 | 0.23 |
| (1,331) | 1:A:96:LEU:HG | 1:A:97:VAL:HB | 15 | 0.23 |
| (1,1816) | 1:A:89:GLU:HA | 1:A:92:GLN:HG2 | 16 | 0.23 |
| (1,1816) | 1:A:89:GLU:HA | 1:A:92:GLN:HG3 | 16 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 12 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 18 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 18 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 18 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 18 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 18 | 0.23 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD11 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD12 | 18 | 0.23 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD13 | 18 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 10 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 10 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 10 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 10 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 10 | 0.23 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 10 | 0.23 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 20 | 0.23 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 20 | 0.23 |
| (1,1484) | 1:A:22:LEU:HD11 | 1:A:30:PHE:HB2 | 3 | 0.23 |
| (1,1484) | 1:A:22:LEU:HD12 | 1:A:30:PHE:HB2 | 3 | 0.23 |
| (1,1484) | 1:A:22:LEU:HD13 | 1:A:30:PHE:HB2 | 3 | 0.23 |
| (1,1484) | 1:A:22:LEU:HD21 | 1:A:30:PHE:HB2 | 3 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1484) | 1:A:22:LEU:HD22 | 1:A:30:PHE:HB2 | 3 | 0.23 |
| (1,1484) | 1:A:22:LEU:HD23 | 1:A:30:PHE:HB2 | 3 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 18 | 0.23 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 17 | 0.23 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 17 | 0.23 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 17 | 0.23 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 17 | 0.23 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 13 | 0.23 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 9 | 0.23 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 9 | 0.23 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 9 | 0.23 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 10 | 0.22 |
| (1,80) | 1:A:73:ARG:HA | 1:A:76:LEU:HB3 | 16 | 0.22 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 3 | 0.22 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 3 | 0.22 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 14 | 0.22 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 14 | 0.22 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 14 | 0.22 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 1 | 0.22 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 1 | 0.22 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 10 | 0.22 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 10 | 0.22 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 10 | 0.22 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 12 | 0.22 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 12 | 0.22 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 12 | 0.22 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 16 | 0.22 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 16 | 0.22 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 16 | 0.22 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD11 | 18 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD12 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD13 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD11 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD12 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD13 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD11 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD12 | 18 | 0.22 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD13 | 18 | 0.22 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 20 | 0.22 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 2 | 0.22 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 13 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD11 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD12 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD13 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD21 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD22 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HD23 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD11 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD12 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD13 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD21 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD22 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HD23 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD11 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD12 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD13 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD21 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD22 | 18 | 0.22 |
| (1,1619) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HD23 | 18 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 17 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 17 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 17 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 17 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 17 | 0.22 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 17 | 0.22 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD1 | 2 | 0.22 |
| (1,1347) | 1:A:22:LEU:HG | 1:A:30:PHE:HD2 | 2 | 0.22 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 9 | 0.22 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 9 | 0.22 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 9 | 0.22 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 9 | 0.22 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 9 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 9 | 0.22 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 7 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 12 | 0.22 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 12 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 12 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 12 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 12 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 18 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 18 | 0.22 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 18 | 0.22 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 3 | 0.22 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 12 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 2 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 2 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 2 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG21 | 1:A:48:GLY:H | 3 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG22 | 1:A:48:GLY:H | 3 | 0.22 |
| (1,1082) | 1:A:45:ILE:HG23 | 1:A:48:GLY:H | 3 | 0.22 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 1 | 0.21 |
| (1,969) | 1:A:64:THR:HG21 | 1:A:65:HIS:H | 6 | 0.21 |
| (1,969) | 1:A:64:THR:HG22 | 1:A:65:HIS:H | 6 | 0.21 |
| (1,969) | 1:A:64:THR:HG23 | 1:A:65:HIS:H | 6 | 0.21 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 4 | 0.21 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 4 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 16 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 16 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 18 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 20 | 0.21 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 20 | 0.21 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 13 | 0.21 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 13 | 0.21 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 13 | 0.21 |
| (1,512) | 1:A:38:THR:HA | 1:A:38:THR:HG21 | 10 | 0.21 |
| (1,512) | 1:A:38:THR:HA | 1:A:38:THR:HG22 | 10 | 0.21 |
| (1,512) | 1:A:38:THR:HA | 1:A:38:THR:HG23 | 10 | 0.21 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 17 | 0.21 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 7 | 0.21 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 15 | 0.21 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 11 | 0.21 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 6 | 0.21 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 6 | 0.21 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 6 | 0.21 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 4 | 0.21 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 4 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 17 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 19 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 19 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 19 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 19 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 19 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 19 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 20 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 20 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 20 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 20 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 20 | 0.21 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 20 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 13 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 13 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 13 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 13 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 13 | 0.21 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 13 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD11 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD12 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD13 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD21 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD22 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG2 | 11 | 0.21 |
| (1,1530) | 1:A:27:LEU:HD23 | 1:A:55:PRO:HG3 | 11 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD11 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD12 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD13 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD21 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD22 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,1383) | 1:A:12:LEU:HD23 | 1:A:59:ALA:H | 15 | 0.21 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 1 | 0.21 |
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 1 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD21 | 11 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD22 | 11 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD23 | 11 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD21 | 11 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD22 | 11 | 0.21 |
| (1,1203) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD23 | 11 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 20 | 0.2 |
| (1,862) | 1:A:94:GLU:H | 1:A:95:ASP:H | 15 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 9 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 9 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 9 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 18 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 18 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 18 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 19 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 19 | 0.2 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 19 | 0.2 |
| (1,773) | 1:A:95:ASP:HA | 1:A:96:LEU:H | 4 | 0.2 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 6 | 0.2 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 6 | 0.2 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 13 | 0.2 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 13 | 0.2 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 19 | 0.2 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 19 | 0.2 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 19 | 0.2 |
| (1,574) | 1:A:45:ILE:HD11 | 1:A:62:LEU:HA | 9 | 0.2 |
| (1,574) | 1:A:45:ILE:HD12 | 1:A:62:LEU:HA | 9 | 0.2 |
| (1,574) | 1:A:45:ILE:HD13 | 1:A:62:LEU:HA | 9 | 0.2 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 3 | 0.2 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 3 | 0.2 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 3 | 0.2 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 14 | 0.2 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 14 | 0.2 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 14 | 0.2 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 17 | 0.2 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 17 | 0.2 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 17 | 0.2 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 19 | 0.2 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 19 | 0.2 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 19 | 0.2 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 3 | 0.2 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 3 | 0.2 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 9 | 0.2 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG21 | 7 | 0.2 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG22 | 7 | 0.2 |
| (1,39) | 1:A:33:TYR:HA | 1:A:36:THR:HG23 | 7 | 0.2 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 8 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 4 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 13 | 0.2 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 13 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 13 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 7 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 7 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 7 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 7 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 7 | 0.2 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 7 | 0.2 |
| (1,171) | 1:A:84:ARG:HA | 1:A:84:ARG:HD2 | 8 | 0.2 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 14 | 0.2 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 5 | 0.2 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 5 | 0.2 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 18 | 0.2 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 18 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD11 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD12 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD13 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD21 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD22 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1385) | 1:A:12:LEU:HD23 | 1:A:60:GLN:H | 5 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 10 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 10 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 10 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 10 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 10 | 0.2 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 10 | 0.2 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 1 | 0.2 |
| (1,1262) | 1:A:45:ILE:HG21 | 1:A:48:GLY:HA2 | 7 | 0.2 |
| (1,1262) | 1:A:45:ILE:HG22 | 1:A:48:GLY:HA2 | 7 | 0.2 |
| (1,1262) | 1:A:45:ILE:HG23 | 1:A:48:GLY:HA2 | 7 | 0.2 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 14 | 0.2 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 5 | 0.19 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 16 | 0.19 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 3 | 0.19 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 3 | 0.19 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 3 | 0.19 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 5 | 0.19 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 5 | 0.19 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 5 | 0.19 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 9 | 0.19 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 1 | 0.19 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 1 | 0.19 |
| (1,696) | 1:A:47:TRP:H | 1:A:47:TRP:HB2 | 3 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,59) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 1 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 7 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 9 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 15 | 0.19 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 15 | 0.19 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 10 | 0.19 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 10 | 0.19 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 10 | 0.19 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 15 | 0.19 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 18 | 0.19 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 18 | 0.19 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 18 | 0.19 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 6 | 0.19 |
| (1,225) | 1:A:12:LEU:HB3 | 1:A:13:CYS:H | 20 | 0.19 |
| (1,192) | 1:A:48:GLY:HA3 | 1:A:50:MET:H | 15 | 0.19 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 14 | 0.19 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 14 | 0.19 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 14 | 0.19 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 14 | 0.19 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 14 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 8 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 8 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 8 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 8 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 8 | 0.19 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 8 | 0.19 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG2 | 20 | 0.19 |
| (1,1413) | 1:A:17:THR:HG21 | 1:A:20:GLU:HG3 | 20 | 0.19 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG2 | 20 | 0.19 |
| (1,1413) | 1:A:17:THR:HG22 | 1:A:20:GLU:HG3 | 20 | 0.19 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG2 | 20 | 0.19 |
| (1,1413) | 1:A:17:THR:HG23 | 1:A:20:GLU:HG3 | 20 | 0.19 |
| (1,1341) | 1:A:18:TYR:HE1 | 1:A:76:LEU:HB2 | 14 | 0.19 |
| (1,1341) | 1:A:18:TYR:HE2 | 1:A:76:LEU:HB2 | 14 | 0.19 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 18 | 0.19 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 18 | 0.19 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 18 | 0.19 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 14 | 0.19 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD2 | 4 | 0.19 |
| (1,1196) | 1:A:33:TYR:HD1 | 1:A:81:ARG:HD3 | 4 | 0.19 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD2 | 4 | 0.19 |
| (1,1196) | 1:A:33:TYR:HD2 | 1:A:81:ARG:HD3 | 4 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 6 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 18 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 18 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 18 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 18 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 18 | 0.19 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 18 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD11 | 8 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD12 | 8 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD13 | 8 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD11 | 8 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD12 | 8 | 0.19 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD13 | 8 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 3 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 3 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 3 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 3 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 3 | 0.19 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 3 | 0.19 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 16 | 0.19 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 16 | 0.19 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 16 | 0.19 |
| (1,1152) | 1:A:47:TRP:HA | 1:A:47:TRP:HE3 | 14 | 0.19 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 1 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 1 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 1 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 9 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 9 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 9 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 10 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 10 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 10 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 11 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 11 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 11 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 13 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 13 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 13 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 17 | 0.18 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 17 | 0.18 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 17 | 0.18 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 1 | 0.18 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 6 | 0.18 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 8 | 0.18 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 6 | 0.18 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 6 | 0.18 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 6 | 0.18 |
| (1,59) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 13 | 0.18 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 3 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 3 | 0.18 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 3 | 0.18 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 4 | 0.18 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 4 | 0.18 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 4 | 0.18 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 7 | 0.18 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 7 | 0.18 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 7 | 0.18 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 7 | 0.18 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 7 | 0.18 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 7 | 0.18 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 14 | 0.18 |
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 14 | 0.18 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 14 | 0.18 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 5 | 0.18 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 5 | 0.18 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 5 | 0.18 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 7 | 0.18 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 7 | 0.18 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 7 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG11 | 14 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG12 | 14 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG13 | 14 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG21 | 14 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG22 | 14 | 0.18 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG23 | 14 | 0.18 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 18 | 0.18 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 1 | 0.18 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 1 | 0.18 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 1 | 0.18 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB2 | 17 | 0.18 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB3 | 17 | 0.18 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 1 | 0.18 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 7 | 0.18 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 15 | 0.18 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 14 | 0.18 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 14 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 15 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 15 | 0.18 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 15 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 3 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 3 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 3 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 3 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 3 | 0.18 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 3 | 0.18 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB2 | 20 | 0.18 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB3 | 20 | 0.18 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB2 | 20 | 0.18 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB3 | 20 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD11 | 10 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD12 | 10 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD13 | 10 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD21 | 10 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD22 | 10 | 0.18 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD23 | 10 | 0.18 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 3 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 17 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 17 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 17 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 17 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 17 | 0.18 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 17 | 0.18 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 9 | 0.18 |
| (1,1217) | 1:A:64:THR:HG21 | 1:A:65:HIS:HD2 | 9 | 0.18 |
| (1,1217) | 1:A:64:THR:HG22 | 1:A:65:HIS:HD2 | 9 | 0.18 |
| (1,1217) | 1:A:64:THR:HG23 | 1:A:65:HIS:HD2 | 9 | 0.18 |
| (1,1200) | 1:A:46:PRO:HG3 | 1:A:47:TRP:HZ3 | 8 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 2 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 2 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 2 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 2 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 2 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 17 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 17 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 17 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 17 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 17 | 0.18 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 17 | 0.18 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 7 | 0.18 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 7 | 0.18 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 7 | 0.18 |
| (1,1149) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HA | 10 | 0.18 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 5 | 0.18 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 4 | 0.17 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 4 | 0.17 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 4 | 0.17 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 14 | 0.17 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 14 | 0.17 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 14 | 0.17 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 15 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 7 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 7 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 7 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 13 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 13 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 13 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 17 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 17 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 17 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 18 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 18 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 18 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 19 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 19 | 0.17 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 19 | 0.17 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 7 | 0.17 |
| (1,884) | 1:A:44:LYS:H | 1:A:45:ILE:HG12 | 15 | 0.17 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 10 | 0.17 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 10 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 10 | 0.17 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD21 | 15 | 0.17 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD22 | 15 | 0.17 |
| (1,79) | 1:A:31:LYS:HA | 1:A:34:LEU:HD23 | 15 | 0.17 |
| (1,696) | 1:A:47:TRP:H | 1:A:47:TRP:HB2 | 2 | 0.17 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB1 | 1 | 0.17 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB2 | 1 | 0.17 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB3 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG11 | 1:A:28:LYS:HD2 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG11 | 1:A:28:LYS:HD3 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG12 | 1:A:28:LYS:HD2 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG12 | 1:A:28:LYS:HD3 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG13 | 1:A:28:LYS:HD2 | 1 | 0.17 |
| (1,624) | 1:A:25:VAL:HG13 | 1:A:28:LYS:HD3 | 1 | 0.17 |
| (1,59) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 11 | 0.17 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 14 | 0.17 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 14 | 0.17 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 3 | 0.17 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 3 | 0.17 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 3 | 0.17 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 16 | 0.17 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 16 | 0.17 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 16 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG11 | 19 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG12 | 19 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG13 | 19 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG21 | 19 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG22 | 19 | 0.17 |
| (1,533) | 1:A:100:THR:HB | 1:A:101:VAL:HG23 | 19 | 0.17 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 3 | 0.17 |
| (1,410) | 1:A:27:LEU:HG | 1:A:58:MET:HG3 | 10 | 0.17 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 3 | 0.17 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 3 | 0.17 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 3 | 0.17 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 3 | 0.17 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 3 | 0.17 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB2 | 6 | 0.17 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB3 | 6 | 0.17 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB2 | 6 | 0.17 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB3 | 6 | 0.17 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 18 | 0.17 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 18 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD11 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD12 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD13 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD21 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD22 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1484) | 1:A:22:LEU:HD23 | 1:A:30:PHE:HB2 | 4 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 12 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD11 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD12 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD13 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD21 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD22 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1385) | 1:A:12:LEU:HD23 | 1:A:60:GLN:H | 17 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 5 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 19 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 19 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 19 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 19 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 19 | 0.17 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 19 | 0.17 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD11 | 3 | 0.17 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD12 | 3 | 0.17 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD13 | 3 | 0.17 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD11 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD12 | 3 | 0.17 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD13 | 3 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 4 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 4 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 4 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 4 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 4 | 0.17 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 4 | 0.17 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 3 | 0.17 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 9 | 0.17 |
| (1,969) | 1:A:64:THR:HG21 | 1:A:65:HIS:H | 19 | 0.16 |
| (1,969) | 1:A:64:THR:HG22 | 1:A:65:HIS:H | 19 | 0.16 |
| (1,969) | 1:A:64:THR:HG23 | 1:A:65:HIS:H | 19 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 1 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 1 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 1 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 5 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 5 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 5 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 6 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 6 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 6 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 15 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 15 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 15 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 16 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 16 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 16 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 20 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 20 | 0.16 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 20 | 0.16 |
| (1,862) | 1:A:94:GLU:H | 1:A:95:ASP:H | 14 | 0.16 |
| (1,844) | 1:A:32:LEU:HA | 1:A:34:LEU:H | 8 | 0.16 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 16 | 0.16 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 16 | 0.16 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 16 | 0.16 |
| (1,8) | 1:A:17:THR:HA | 1:A:20:GLU:H | 10 | 0.16 |
| (1,764) | 1:A:84:ARG:HA | 1:A:87:LEU:H | 15 | 0.16 |
| (1,632) | 1:A:34:LEU:HA | 1:A:78:THR:HG21 | 20 | 0.16 |
| (1,632) | 1:A:34:LEU:HA | 1:A:78:THR:HG22 | 20 | 0.16 |
| (1,632) | 1:A:34:LEU:HA | 1:A:78:THR:HG23 | 20 | 0.16 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 8 | 0.16 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 8 | 0.16 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 16 | 0.16 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 16 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB2 | 8 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB3 | 8 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB2 | 12 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB3 | 12 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB2 | 15 | 0.16 |
| (1,417) | 1:A:10:ASP:HA | 1:A:13:CYS:HB3 | 15 | 0.16 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 12 | 0.16 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 1 | 0.16 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 1 | 0.16 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 1 | 0.16 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 1 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD11 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD11 | 4 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD11 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD11 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD11 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD11 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD12 | 4 | 0.16 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD13 | 4 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD11 | 1 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD12 | 1 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD13 | 1 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD21 | 1 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD22 | 1 | 0.16 |
| (1,1639) | 1:A:50:MET:H | 1:A:61:LEU:HD23 | 1 | 0.16 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 2 | 0.16 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 2 | 0.16 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 2 | 0.16 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 2 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD21 | 6 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD22 | 6 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB2 | 1:A:34:LEU:HD23 | 6 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD21 | 6 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD22 | 6 | 0.16 |
| (1,1564) | 1:A:31:LYS:HB3 | 1:A:34:LEU:HD23 | 6 | 0.16 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 4 | 0.16 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 4 | 0.16 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 8 | 0.16 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 8 | 0.16 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 14 | 0.16 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 14 | 0.16 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG2 | 1 | 0.16 |
| (1,1358) | 1:A:9:ARG:H | 1:A:9:ARG:HG3 | 1 | 0.16 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 20 | 0.16 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 15 | 0.16 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 15 | 0.16 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 15 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG21 | 2 | 0.16 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG22 | 2 | 0.16 |
| (1,1276) | 1:A:29:LYS:HE2 | 1:A:82:ILE:HG23 | 2 | 0.16 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG21 | 2 | 0.16 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG22 | 2 | 0.16 |
| (1,1276) | 1:A:29:LYS:HE3 | 1:A:82:ILE:HG23 | 2 | 0.16 |
| (1,1217) | 1:A:64:THR:HG21 | 1:A:65:HIS:HD2 | 5 | 0.16 |
| (1,1217) | 1:A:64:THR:HG22 | 1:A:65:HIS:HD2 | 5 | 0.16 |
| (1,1217) | 1:A:64:THR:HG23 | 1:A:65:HIS:HD2 | 5 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 9 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 20 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 20 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 20 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 20 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 20 | 0.16 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 20 | 0.16 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 17 | 0.16 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 17 | 0.16 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 17 | 0.16 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE1 | 19 | 0.16 |
| (1,1176) | 1:A:45:ILE:HG13 | 1:A:66:PHE:HE2 | 19 | 0.16 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 16 | 0.16 |
| (1,1085) | 1:A:34:LEU:HB3 | 1:A:35:GLY:H | 6 | 0.16 |
| (1,963) | 1:A:63:ILE:HD11 | 1:A:65:HIS:H | 7 | 0.15 |
| (1,963) | 1:A:63:ILE:HD12 | 1:A:65:HIS:H | 7 | 0.15 |
| (1,963) | 1:A:63:ILE:HD13 | 1:A:65:HIS:H | 7 | 0.15 |
| (1,930) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:H | 1 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 2 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 2 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 2 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 9 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 9 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 9 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 10 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 10 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 10 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 11 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 11 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 11 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 12 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 12 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 12 | 0.15 |
| (1,80) | 1:A:73:ARG:HA | 1:A:76:LEU:HB3 | 4 | 0.15 |
| (1,750) | 1:A:42:GLU:H | 1:A:42:GLU:HG2 | 12 | 0.15 |
| (1,750) | 1:A:42:GLU:H | 1:A:42:GLU:HG3 | 12 | 0.15 |
| (1,734) | 1:A:85:LYS:H | 1:A:85:LYS:HB2 | 2 | 0.15 |
| (1,734) | 1:A:85:LYS:H | 1:A:85:LYS:HB2 | 3 | 0.15 |
| (1,734) | 1:A:85:LYS:H | 1:A:85:LYS:HB2 | 20 | 0.15 |
| (1,613) | 1:A:53:ALA:HA | 1:A:58:MET:HG2 | 6 | 0.15 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 5 | 0.15 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 5 | 0.15 |
| (1,578) | 1:A:63:ILE:HD11 | 1:A:71:ALA:H | 11 | 0.15 |
| (1,578) | 1:A:63:ILE:HD12 | 1:A:71:ALA:H | 11 | 0.15 |
| (1,578) | 1:A:63:ILE:HD13 | 1:A:71:ALA:H | 11 | 0.15 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG21 | 5 | 0.15 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG22 | 5 | 0.15 |
| (1,558) | 1:A:33:TYR:HD1 | 1:A:82:ILE:HG23 | 5 | 0.15 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG21 | 5 | 0.15 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG22 | 5 | 0.15 |
| (1,558) | 1:A:33:TYR:HD2 | 1:A:82:ILE:HG23 | 5 | 0.15 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 5 | 0.15 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 5 | 0.15 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 13 | 0.15 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 13 | 0.15 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG21 | 20 | 0.15 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG22 | 20 | 0.15 |
| (1,41) | 1:A:33:TYR:HA | 1:A:82:ILE:HG23 | 20 | 0.15 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 9 | 0.15 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 3 | 0.15 |
| (1,310) | 1:A:12:LEU:HD21 | 1:A:60:GLN:HG3 | 20 | 0.15 |
| (1,310) | 1:A:12:LEU:HD22 | 1:A:60:GLN:HG3 | 20 | 0.15 |
| (1,310) | 1:A:12:LEU:HD23 | 1:A:60:GLN:HG3 | 20 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG2 | 5 | 0.15 |
| (1,291) | 1:A:93:ARG:H | 1:A:94:GLU:HG3 | 5 | 0.15 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 16 | 0.15 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 16 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 3 | 0.15 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 3 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB2 | 15 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB3 | 15 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB2 | 15 | 0.15 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB3 | 15 | 0.15 |
| (1,171) | 1:A:84:ARG:HA | 1:A:84:ARG:HD2 | 11 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD13 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD13 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD13 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD13 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD13 | 13 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD11 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD12 | 13 | 0.15 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD13 | 13 | 0.15 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB2 | 17 | 0.15 |
| (1,1563) | 1:A:31:LYS:HB2 | 1:A:32:LEU:HB3 | 17 | 0.15 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB2 | 17 | 0.15 |
| (1,1563) | 1:A:31:LYS:HB3 | 1:A:32:LEU:HB3 | 17 | 0.15 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 10 | 0.15 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 10 | 0.15 |
| (1,1562) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 16 | 0.15 |
| (1,1562) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 16 | 0.15 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 8 | 0.15 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 8 | 0.15 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG2 | 10 | 0.15 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG3 | 10 | 0.15 |
| (1,1246) | 1:A:87:LEU:HA | 1:A:90:ARG:HG3 | 1 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD11 | 15 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD12 | 15 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD1 | 1:A:82:ILE:HD13 | 15 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD11 | 15 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD12 | 15 | 0.15 |
| (1,1189) | 1:A:30:PHE:HD2 | 1:A:82:ILE:HD13 | 15 | 0.15 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 11 | 0.15 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 3 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 3 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 3 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 4 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 4 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 4 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 8 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 8 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 8 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG21 | 14 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG22 | 14 | 0.14 |
| (1,909) | 1:A:64:THR:H | 1:A:64:THR:HG23 | 14 | 0.14 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 16 | 0.14 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 16 | 0.14 |
| (1,764) | 1:A:84:ARG:HA | 1:A:87:LEU:H | 16 | 0.14 |
| (1,757) | 1:A:22:LEU:HD11 | 1:A:27:LEU:H | 20 | 0.14 |
| (1,757) | 1:A:22:LEU:HD12 | 1:A:27:LEU:H | 20 | 0.14 |
| (1,757) | 1:A:22:LEU:HD13 | 1:A:27:LEU:H | 20 | 0.14 |
| (1,696) | 1:A:47:TRP:H | 1:A:47:TRP:HB2 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 6 | 0.14 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 6 | 0.14 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 6 | 0.14 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 20 | 0.14 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 20 | 0.14 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 20 | 0.14 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 3 | 0.14 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 3 | 0.14 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 6 | 0.14 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 14 | 0.14 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 14 | 0.14 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 14 | 0.14 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 4 | 0.14 |
| (1,337) | 1:A:46:PRO:HB3 | 1:A:49:SER:H | 5 | 0.14 |
| (1,322) | 1:A:58:MET:HG2 | 1:A:59:ALA:H | 16 | 0.14 |
| (1,316) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 6 | 0.14 |
| (1,316) | 1:A:31:LYS:HB2 | 1:A:32:LEU:H | 17 | 0.14 |
| (1,309) | 1:A:12:LEU:HD11 | 1:A:60:GLN:HG3 | 1 | 0.14 |
| (1,309) | 1:A:12:LEU:HD12 | 1:A:60:GLN:HG3 | 1 | 0.14 |
| (1,309) | 1:A:12:LEU:HD13 | 1:A:60:GLN:HG3 | 1 | 0.14 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD2 | 8 | 0.14 |
| (1,211) | 1:A:78:THR:HG21 | 1:A:81:ARG:HD3 | 8 | 0.14 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD2 | 8 | 0.14 |
| (1,211) | 1:A:78:THR:HG22 | 1:A:81:ARG:HD3 | 8 | 0.14 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD2 | 8 | 0.14 |
| (1,211) | 1:A:78:THR:HG23 | 1:A:81:ARG:HD3 | 8 | 0.14 |
| (1,192) | 1:A:48:GLY:HA3 | 1:A:50:MET:H | 20 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA2 | 10 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD11 | 1:A:91:GLY:HA3 | 10 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA2 | 10 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD12 | 1:A:91:GLY:HA3 | 10 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA2 | 10 | 0.14 |
| (1,1755) | 1:A:76:LEU:HD13 | 1:A:91:GLY:HA3 | 10 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD11 | 1 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD12 | 1 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD13 | 1 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD21 | 1 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD22 | 1 | 0.14 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD23 | 1 | 0.14 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 16 | 0.14 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 7 | 0.14 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 7 | 0.14 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 7 | 0.14 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 7 | 0.14 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 7 | 0.14 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB2 | 20 | 0.14 |
| (1,1538) | 1:A:28:LYS:HA | 1:A:31:LYS:HB3 | 20 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD11 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD12 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD13 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD21 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD22 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1533) | 1:A:27:LEU:HD23 | 1:A:58:MET:HG3 | 8 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD11 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD12 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD13 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD21 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD22 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1454) | 1:A:19:LEU:HD23 | 1:A:79:PHE:HA | 12 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD11 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD12 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD13 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD21 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD22 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,1383) | 1:A:12:LEU:HD23 | 1:A:59:ALA:H | 1 | 0.14 |
| (1,135) | 1:A:93:ARG:HA | 1:A:95:ASP:H | 13 | 0.14 |
| (1,1280) | 1:A:19:LEU:HD21 | 1:A:58:MET:HG2 | 20 | 0.14 |
| (1,1280) | 1:A:19:LEU:HD22 | 1:A:58:MET:HG2 | 20 | 0.14 |
| (1,1280) | 1:A:19:LEU:HD23 | 1:A:58:MET:HG2 | 20 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 12 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 12 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 12 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 12 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 12 | 0.14 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 12 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 14 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 15 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 15 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 15 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 15 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 15 | 0.14 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 15 | 0.14 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 14 | 0.14 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 14 | 0.14 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 14 | 0.14 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 10 | 0.14 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 13 | 0.14 |
| (1,1085) | 1:A:34:LEU:HB3 | 1:A:35:GLY:H | 11 | 0.14 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 7 | 0.14 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 11 | 0.13 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 15 | 0.13 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 15 | 0.13 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 15 | 0.13 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 5 | 0.13 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 5 | 0.13 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 7 | 0.13 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 7 | 0.13 |
| (1,716) | 1:A:44:LYS:HA | 1:A:45:ILE:H | 19 | 0.13 |
| (1,692) | 1:A:4:LEU:HA | 1:A:5:ARG:H | 1 | 0.13 |
| (1,676) | 1:A:93:ARG:HD2 | 1:A:94:GLU:HA | 7 | 0.13 |
| (1,676) | 1:A:93:ARG:HD3 | 1:A:94:GLU:HA | 7 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 10 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 19 | 0.13 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 19 | 0.13 |
| (1,562) | 1:A:45:ILE:HG21 | 1:A:46:PRO:HD3 | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,562) | 1:A:45:ILE:HG22 | 1:A:46:PRO:HD3 | 10 | 0.13 |
| (1,562) | 1:A:45:ILE:HG23 | 1:A:46:PRO:HD3 | 10 | 0.13 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 9 | 0.13 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 9 | 0.13 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD21 | 1:A:36:THR:HG21 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD21 | 1:A:36:THR:HG22 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD21 | 1:A:36:THR:HG23 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD22 | 1:A:36:THR:HG21 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD22 | 1:A:36:THR:HG22 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD22 | 1:A:36:THR:HG23 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD23 | 1:A:36:THR:HG21 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD23 | 1:A:36:THR:HG22 | 9 | 0.13 |
| (1,525) | 1:A:32:LEU:HD23 | 1:A:36:THR:HG23 | 9 | 0.13 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 8 | 0.13 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 8 | 0.13 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 10 | 0.13 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 10 | 0.13 |
| (1,384) | 1:A:86:ASP:HA | 1:A:89:GLU:HB3 | 19 | 0.13 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 14 | 0.13 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 14 | 0.13 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 6 | 0.13 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 6 | 0.13 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG2 | 9 | 0.13 |
| (1,1800) | 1:A:87:LEU:H | 1:A:90:ARG:HG3 | 9 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD11 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD12 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD13 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD21 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD22 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD11 | 1:A:87:LEU:HD23 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD11 | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD12 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD13 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD21 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD22 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD12 | 1:A:87:LEU:HD23 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD11 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD12 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD13 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD21 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD22 | 7 | 0.13 |
| (1,1778) | 1:A:82:ILE:HD13 | 1:A:87:LEU:HD23 | 7 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD11 | 1:A:84:ARG:HD2 | 10 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD11 | 1:A:84:ARG:HD3 | 10 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD12 | 1:A:84:ARG:HD2 | 10 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD12 | 1:A:84:ARG:HD3 | 10 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD13 | 1:A:84:ARG:HD2 | 10 | 0.13 |
| (1,1777) | 1:A:82:ILE:HD13 | 1:A:84:ARG:HD3 | 10 | 0.13 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB2 | 1 | 0.13 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB3 | 1 | 0.13 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB2 | 1 | 0.13 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB3 | 1 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD11 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD12 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD13 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD21 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD22 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1697) | 1:A:62:LEU:HD23 | 1:A:63:ILE:H | 3 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG2 | 20 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG3 | 20 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG2 | 20 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG3 | 20 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG2 | 20 | 0.13 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG3 | 20 | 0.13 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB2 | 5 | 0.13 |
| (1,1636) | 1:A:49:SER:HB2 | 1:A:61:LEU:HB3 | 5 | 0.13 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB2 | 5 | 0.13 |
| (1,1636) | 1:A:49:SER:HB3 | 1:A:61:LEU:HB3 | 5 | 0.13 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 10 | 0.13 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 11 | 0.13 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD11 | 4 | 0.13 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD12 | 4 | 0.13 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD13 | 4 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD21 | 4 | 0.13 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD22 | 4 | 0.13 |
| (1,1586) | 1:A:35:GLY:HA2 | 1:A:40:LEU:HD23 | 4 | 0.13 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG2 | 13 | 0.13 |
| (1,1473) | 1:A:22:LEU:HB3 | 1:A:23:GLU:HG3 | 13 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD11 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD12 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD13 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD21 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD22 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1445) | 1:A:19:LEU:HD23 | 1:A:55:PRO:HB2 | 1 | 0.13 |
| (1,1354) | 1:A:72:TRP:HE3 | 1:A:73:ARG:HA | 4 | 0.13 |
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 17 | 0.13 |
| (1,1270) | 1:A:79:PHE:HB3 | 1:A:87:LEU:HG | 18 | 0.13 |
| (1,1224) | 1:A:72:TRP:HZ3 | 1:A:76:LEU:HB2 | 9 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD11 | 16 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD12 | 16 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE1 | 1:A:87:LEU:HD13 | 16 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD11 | 16 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD12 | 16 | 0.13 |
| (1,1204) | 1:A:18:TYR:HE2 | 1:A:87:LEU:HD13 | 16 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 3 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 3 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 3 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 3 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 3 | 0.13 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 3 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 8 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 8 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 8 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 8 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 8 | 0.13 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 8 | 0.13 |
| (1,1182) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HG | 8 | 0.13 |
| (1,1166) | 1:A:80:GLU:HB2 | 1:A:88:TRP:HD1 | 5 | 0.13 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 7 | 0.13 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 9 | 0.13 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 12 | 0.13 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 14 | 0.13 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 15 | 0.13 |
| (1,1085) | 1:A:34:LEU:HB3 | 1:A:35:GLY:H | 17 | 0.13 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 2 | 0.12 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 2 | 0.12 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD21 | 5 | 0.12 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD22 | 5 | 0.12 |
| (1,831) | 1:A:34:LEU:H | 1:A:34:LEU:HD23 | 5 | 0.12 |
| (1,718) | 1:A:45:ILE:H | 1:A:45:ILE:HB | 19 | 0.12 |
| (1,70) | 1:A:45:ILE:HD11 | 1:A:65:HIS:HA | 9 | 0.12 |
| (1,70) | 1:A:45:ILE:HD12 | 1:A:65:HIS:HA | 9 | 0.12 |
| (1,70) | 1:A:45:ILE:HD13 | 1:A:65:HIS:HA | 9 | 0.12 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB1 | 15 | 0.12 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB2 | 15 | 0.12 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB3 | 15 | 0.12 |
| (1,662) | 1:A:19:LEU:HG | 1:A:75:ALA:HA | 11 | 0.12 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG11 | 2 | 0.12 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG12 | 2 | 0.12 |
| (1,627) | 1:A:22:LEU:HB3 | 1:A:25:VAL:HG13 | 2 | 0.12 |
| (1,611) | 1:A:83:ASN:HA | 1:A:84:ARG:HB3 | 8 | 0.12 |
| (1,553) | 1:A:75:ALA:HB1 | 1:A:77:SER:H | 18 | 0.12 |
| (1,553) | 1:A:75:ALA:HB2 | 1:A:77:SER:H | 18 | 0.12 |
| (1,553) | 1:A:75:ALA:HB3 | 1:A:77:SER:H | 18 | 0.12 |
| (1,495) | 1:A:34:LEU:HA | 1:A:34:LEU:HD11 | 9 | 0.12 |
| (1,495) | 1:A:34:LEU:HA | 1:A:34:LEU:HD12 | 9 | 0.12 |
| (1,495) | 1:A:34:LEU:HA | 1:A:34:LEU:HD13 | 9 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 7 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 7 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 16 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 16 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 17 | 0.12 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 17 | 0.12 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 12 | 0.12 |
| (1,376) | 1:A:88:TRP:HE3 | 1:A:89:GLU:HB2 | 18 | 0.12 |
| (1,192) | 1:A:48:GLY:HA3 | 1:A:50:MET:H | 6 | 0.12 |
| (1,192) | 1:A:48:GLY:HA3 | 1:A:50:MET:H | 14 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG11 | 4 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG12 | 4 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG13 | 4 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG21 | 4 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG22 | 4 | 0.12 |
| (1,1840) | 1:A:100:THR:H | 1:A:101:VAL:HG23 | 4 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB2 | 19 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB3 | 19 | 0.12 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB2 | 19 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB3 | 19 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD11 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD12 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD13 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD21 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD22 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD11 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD12 | 8 | 0.12 |
| (1,1704) | 1:A:62:LEU:HD23 | 1:A:74:LEU:HD13 | 8 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD11 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD12 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD13 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD21 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD22 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD23 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD11 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD12 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD13 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD21 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD22 | 9 | 0.12 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD23 | 9 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG2 | 5 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG3 | 5 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG2 | 5 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG3 | 5 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG2 | 6 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG3 | 6 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG2 | 6 | 0.12 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG3 | 6 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD11 | 1:A:79:PHE:HA | 7 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD12 | 1:A:79:PHE:HA | 7 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD13 | 1:A:79:PHE:HA | 7 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|----------------|----------|---------------|
| (1,1454) | 1:A:19:LEU:HD21 | 1:A:79:PHE:HA | 7 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD22 | 1:A:79:PHE:HA | 7 | 0.12 |
| (1,1454) | 1:A:19:LEU:HD23 | 1:A:79:PHE:HA | 7 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD11 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD12 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD13 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD21 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD22 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1385) | 1:A:12:LEU:HD23 | 1:A:60:GLN:H | 15 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD2 | 1:A:10:ASP:HA | 3 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD3 | 1:A:10:ASP:HA | 3 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD2 | 1:A:10:ASP:HA | 8 | 0.12 |
| (1,1365) | 1:A:9:ARG:HD3 | 1:A:10:ASP:HA | 8 | 0.12 |
| (1,1308) | 1:A:35:GLY:HA3 | 1:A:37:ALA:HB1 | 20 | 0.12 |
| (1,1308) | 1:A:35:GLY:HA3 | 1:A:37:ALA:HB2 | 20 | 0.12 |
| (1,1308) | 1:A:35:GLY:HA3 | 1:A:37:ALA:HB3 | 20 | 0.12 |
| (1,1246) | 1:A:87:LEU:HA | 1:A:90:ARG:HG3 | 15 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 14 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 14 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 14 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 14 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 14 | 0.12 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 14 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD1 | 10 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HD2 | 10 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD1 | 10 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HD2 | 10 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD1 | 10 | 0.12 |
| (1,1187) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HD2 | 10 | 0.12 |
| (1,1182) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HG | 16 | 0.12 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 1 | 0.12 |
| (1,1100) | 1:A:50:MET:HG3 | 1:A:51:GLU:H | 10 | 0.12 |
| (1,1079) | 1:A:47:TRP:H | 1:A:48:GLY:H | 3 | 0.12 |
| (1,1079) | 1:A:47:TRP:H | 1:A:48:GLY:H | 8 | 0.12 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 13 | 0.12 |
| (1,983) | 1:A:25:VAL:H | 1:A:27:LEU:HB2 | 4 | 0.11 |
| (1,890) | 1:A:31:LYS:HB3 | 1:A:32:LEU:H | 10 | 0.11 |
| (1,77) | 1:A:30:PHE:HD1 | 1:A:31:LYS:HA | 15 | 0.11 |
| (1,77) | 1:A:30:PHE:HD2 | 1:A:31:LYS:HA | 15 | 0.11 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB1 | 11 | 0.11 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB2 | 11 | 0.11 |
| (1,665) | 1:A:58:MET:HB3 | 1:A:75:ALA:HB3 | 11 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB1 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB2 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD11 | 1:A:71:ALA:HB3 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB1 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB2 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD12 | 1:A:71:ALA:HB3 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB1 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB2 | 12 | 0.11 |
| (1,581) | 1:A:63:ILE:HD13 | 1:A:71:ALA:HB3 | 12 | 0.11 |
| (1,550) | 1:A:15:LEU:HG | 1:A:59:ALA:HB1 | 6 | 0.11 |
| (1,550) | 1:A:15:LEU:HG | 1:A:59:ALA:HB2 | 6 | 0.11 |
| (1,550) | 1:A:15:LEU:HG | 1:A:59:ALA:HB3 | 6 | 0.11 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD11 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD12 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HD13 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD11 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD12 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HD13 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD11 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD12 | 7 | 0.11 |
| (1,472) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HD13 | 7 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 1 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 1 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 2 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 2 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB2 | 15 | 0.11 |
| (1,459) | 1:A:76:LEU:HG | 1:A:77:SER:HB3 | 15 | 0.11 |
| (1,438) | 1:A:84:ARG:HB3 | 1:A:88:TRP:H | 11 | 0.11 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 9 | 0.11 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 9 | 0.11 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 9 | 0.11 |
| (1,431) | 1:A:34:LEU:HD11 | 1:A:74:LEU:HG | 13 | 0.11 |
| (1,431) | 1:A:34:LEU:HD12 | 1:A:74:LEU:HG | 13 | 0.11 |
| (1,431) | 1:A:34:LEU:HD13 | 1:A:74:LEU:HG | 13 | 0.11 |
| (1,429) | 1:A:71:ALA:H | 1:A:74:LEU:HG | 15 | 0.11 |
| (1,38) | 1:A:33:TYR:HA | 1:A:36:THR:H | 19 | 0.11 |
| (1,343) | 1:A:53:ALA:HB1 | 1:A:58:MET:HB3 | 5 | 0.11 |
| (1,343) | 1:A:53:ALA:HB2 | 1:A:58:MET:HB3 | 5 | 0.11 |
| (1,343) | 1:A:53:ALA:HB3 | 1:A:58:MET:HB3 | 5 | 0.11 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG2 | 20 | 0.11 |
| (1,28) | 1:A:18:TYR:HA | 1:A:21:GLU:HG3 | 20 | 0.11 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG21 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG22 | 9 | 0.11 |
| (1,233) | 1:A:34:LEU:HB3 | 1:A:78:THR:HG23 | 9 | 0.11 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG11 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG12 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG13 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG21 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG22 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD2 | 17 | 0.11 |
| (1,207) | 1:A:97:VAL:HG23 | 1:A:98:ARG:HD3 | 17 | 0.11 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB2 | 12 | 0.11 |
| (1,1770) | 1:A:80:GLU:HG2 | 1:A:85:LYS:HB3 | 12 | 0.11 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB2 | 12 | 0.11 |
| (1,1770) | 1:A:80:GLU:HG3 | 1:A:85:LYS:HB3 | 12 | 0.11 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB2 | 4 | 0.11 |
| (1,1752) | 1:A:73:ARG:HB2 | 1:A:77:SER:HB3 | 4 | 0.11 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB2 | 4 | 0.11 |
| (1,1752) | 1:A:73:ARG:HB3 | 1:A:77:SER:HB3 | 4 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD11 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD12 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD13 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD21 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD22 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD23 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD11 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD12 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD13 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD21 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD22 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD23 | 16 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD11 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD12 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD13 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD21 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD22 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA2 | 1:A:56:LEU:HD23 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD11 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD12 | 20 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD13 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD21 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD22 | 20 | 0.11 |
| (1,1665) | 1:A:54:GLY:HA3 | 1:A:56:LEU:HD23 | 20 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG2 | 7 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB1 | 1:A:57:GLU:HG3 | 7 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG2 | 7 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB2 | 1:A:57:GLU:HG3 | 7 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG2 | 7 | 0.11 |
| (1,1659) | 1:A:53:ALA:HB3 | 1:A:57:GLU:HG3 | 7 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD11 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD12 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD13 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD21 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD22 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD23 | 3 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD11 | 17 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD12 | 17 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD13 | 17 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD21 | 17 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD22 | 17 | 0.11 |
| (1,1633) | 1:A:49:SER:H | 1:A:61:LEU:HD23 | 17 | 0.11 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 1 | 0.11 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 8 | 0.11 |
| (1,161) | 1:A:75:ALA:HA | 1:A:77:SER:H | 19 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG2 | 14 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG3 | 14 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG2 | 14 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG3 | 14 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG2 | 20 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB2 | 1:A:26:GLU:HG3 | 20 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG2 | 20 | 0.11 |
| (1,1504) | 1:A:23:GLU:HB3 | 1:A:26:GLU:HG3 | 20 | 0.11 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 1 | 0.11 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 1 | 0.11 |
| (1,1503) | 1:A:23:GLU:HB2 | 1:A:26:GLU:H | 6 | 0.11 |
| (1,1503) | 1:A:23:GLU:HB3 | 1:A:26:GLU:H | 6 | 0.11 |
| (1,1494) | 1:A:23:GLU:H | 1:A:23:GLU:HG2 | 19 | 0.11 |
| (1,1494) | 1:A:23:GLU:H | 1:A:23:GLU:HG3 | 19 | 0.11 |
| (1,1484) | 1:A:22:LEU:HD11 | 1:A:30:PHE:HB2 | 8 | 0.11 |
| (1,1484) | 1:A:22:LEU:HD12 | 1:A:30:PHE:HB2 | 8 | 0.11 |
| (1,1484) | 1:A:22:LEU:HD13 | 1:A:30:PHE:HB2 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1484) | 1:A:22:LEU:HD21 | 1:A:30:PHE:HB2 | 8 | 0.11 |
| (1,1484) | 1:A:22:LEU:HD22 | 1:A:30:PHE:HB2 | 8 | 0.11 |
| (1,1484) | 1:A:22:LEU:HD23 | 1:A:30:PHE:HB2 | 8 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD11 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD12 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD13 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD21 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD22 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD23 | 1:A:79:PHE:HA | 4 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD11 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD12 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD13 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD21 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD22 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1454) | 1:A:19:LEU:HD23 | 1:A:79:PHE:HA | 18 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB2 | 11 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB3 | 11 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB2 | 11 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB3 | 11 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB2 | 14 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD1 | 1:A:87:LEU:HB3 | 14 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB2 | 14 | 0.11 |
| (1,1424) | 1:A:18:TYR:HD2 | 1:A:87:LEU:HB3 | 14 | 0.11 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB2 | 2 | 0.11 |
| (1,1415) | 1:A:18:TYR:HA | 1:A:20:GLU:HB3 | 2 | 0.11 |
| (1,1365) | 1:A:9:ARG:HD2 | 1:A:10:ASP:HA | 5 | 0.11 |
| (1,1365) | 1:A:9:ARG:HD3 | 1:A:10:ASP:HA | 5 | 0.11 |
| (1,1354) | 1:A:72:TRP:HE3 | 1:A:73:ARG:HA | 7 | 0.11 |
| (1,131) | 1:A:87:LEU:HA | 1:A:91:GLY:H | 19 | 0.11 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 6 | 0.11 |
| (1,1274) | 1:A:88:TRP:HZ3 | 1:A:89:GLU:HA | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE1 | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD11 | 1:A:79:PHE:HE2 | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE1 | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD12 | 1:A:79:PHE:HE2 | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE1 | 10 | 0.11 |
| (1,1192) | 1:A:76:LEU:HD13 | 1:A:79:PHE:HE2 | 10 | 0.11 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD11 | 19 | 0.11 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD12 | 19 | 0.11 |
| (1,1177) | 1:A:72:TRP:HZ2 | 1:A:76:LEU:HD13 | 19 | 0.11 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 2 | 0.11 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 4 | 0.11 |
| (1,1141) | 1:A:66:PHE:H | 1:A:66:PHE:HZ | 17 | 0.11 |
| (1,1113) | 1:A:46:PRO:HD2 | 1:A:48:GLY:H | 11 | 0.11 |
| (1,1086) | 1:A:35:GLY:H | 1:A:36:THR:HG21 | 15 | 0.11 |
| (1,1086) | 1:A:35:GLY:H | 1:A:36:THR:HG22 | 15 | 0.11 |
| (1,1086) | 1:A:35:GLY:H | 1:A:36:THR:HG23 | 15 | 0.11 |
| (1,1079) | 1:A:47:TRP:H | 1:A:48:GLY:H | 4 | 0.11 |
| (1,1074) | 1:A:40:LEU:HB3 | 1:A:41:GLY:H | 10 | 0.11 |

10 Dihedral-angle violation analysis

No dihedral-angle restraints found