



Full wwPDB NMR Structure Validation Report ⓘ

Mar 25, 2024 – 02:21 PM JST

PDB ID : 8X3A
BMRB ID : 12024
Title : Solution NMR structure of cellulosomal double-dockerin module of Clo1313_0689 from Clostridium thermocellum
Authors : Chen, C.; Feng, Y.
Deposited on : 2023-11-12

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:

Cyrange : Kirchner and Güntert (2011)
NmrClust : Kelley et al. (1996)
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) : 2.36

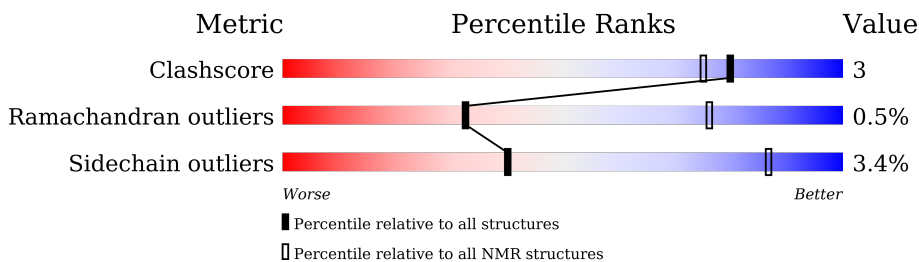
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 93%.

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 | 152 | 88% 5% 7% |

2 Ensemble composition and analysis i

This entry contains 20 models. Model 17 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:2-A:141 (140) | 0.68 | 17 |

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 6 clusters and 3 single-model clusters were found.

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

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2292 atoms, of which 1129 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Serine protease.

| Mol | Chain | Residues | Atoms | | | | | Trace | |
|-----|-------|----------|-------|-----|------|-----|-----|-------|---|
| | | | Total | C | H | N | O | | S |
| 1 | A | 151 | 2288 | 720 | 1129 | 203 | 233 | 3 | 0 |

There are 10 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|-----------------------|------------|
| A | 1 | MET | - | initiating methionine | UNP Q2HPT9 |
| A | 144 | LEU | - | expression tag | UNP Q2HPT9 |
| A | 145 | GLU | - | expression tag | UNP Q2HPT9 |
| A | 146 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 147 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 148 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 149 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 150 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 151 | HIS | - | expression tag | UNP Q2HPT9 |
| A | 152 | HIS | - | expression tag | UNP Q2HPT9 |

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

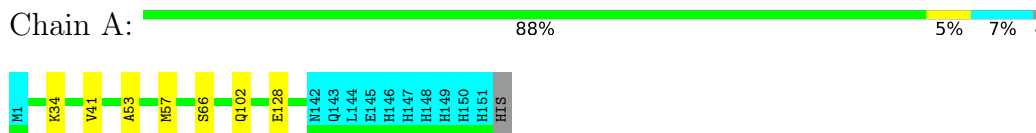
| Mol | Chain | Residues | Atoms | |
|-----|-------|----------|-------|----|
| | | | Total | Ca |
| 2 | A | 4 | 4 | 4 |

4 Residue-property plots i

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Serine protease

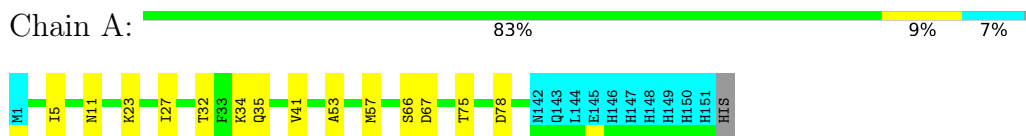


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

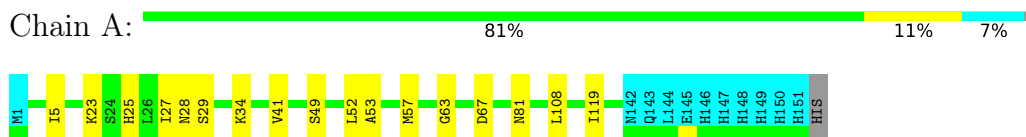
4.2.1 Score per residue for model 1

- Molecule 1: Serine protease



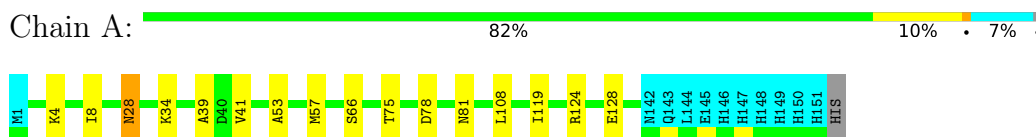
4.2.2 Score per residue for model 2

- Molecule 1: Serine protease



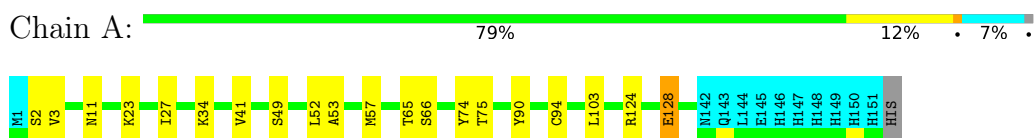
4.2.3 Score per residue for model 3

- Molecule 1: Serine protease



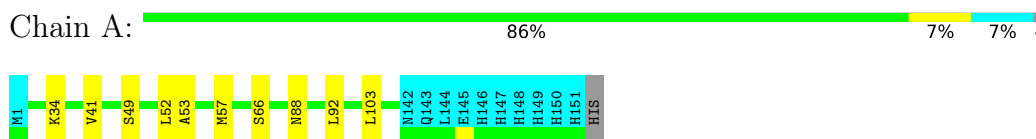
4.2.4 Score per residue for model 4

- Molecule 1: Serine protease



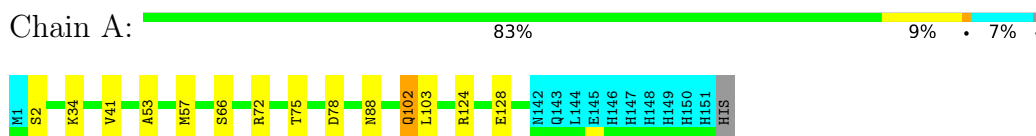
4.2.5 Score per residue for model 5

- Molecule 1: Serine protease



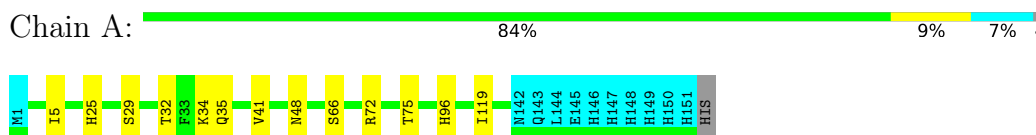
4.2.6 Score per residue for model 6

- Molecule 1: Serine protease



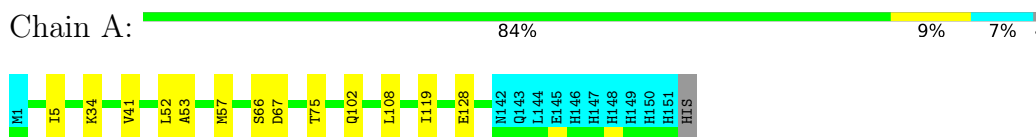
4.2.7 Score per residue for model 7

- Molecule 1: Serine protease



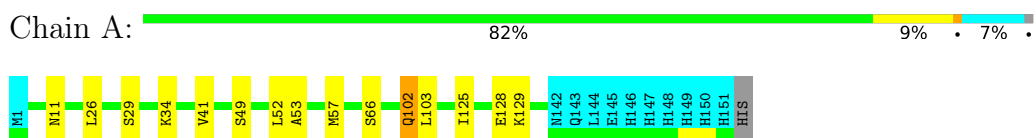
4.2.8 Score per residue for model 8

- Molecule 1: Serine protease



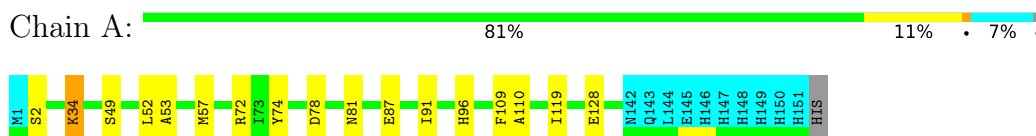
4.2.9 Score per residue for model 9

- Molecule 1: Serine protease



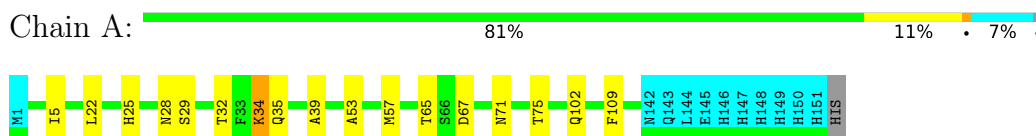
4.2.10 Score per residue for model 10

- Molecule 1: Serine protease



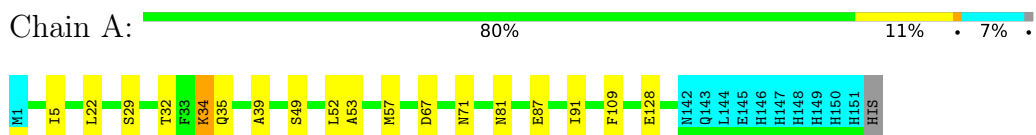
4.2.11 Score per residue for model 11

- Molecule 1: Serine protease



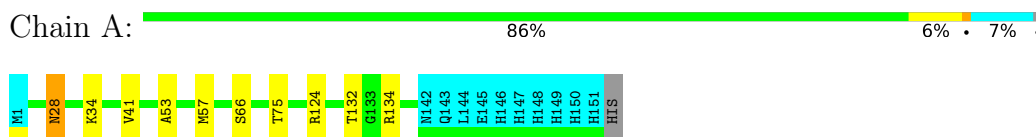
4.2.12 Score per residue for model 12

- Molecule 1: Serine protease



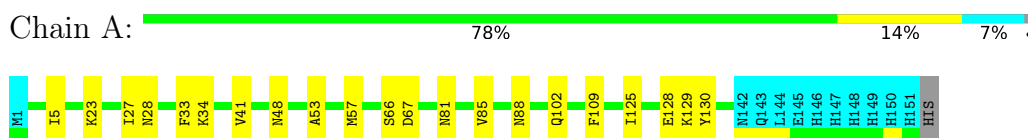
4.2.13 Score per residue for model 13

- Molecule 1: Serine protease



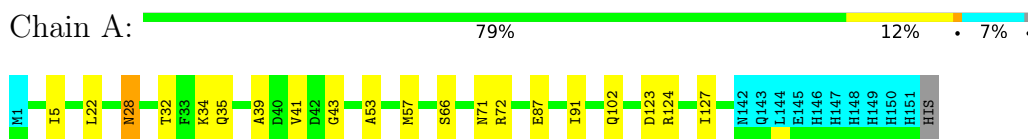
4.2.14 Score per residue for model 14

- Molecule 1: Serine protease



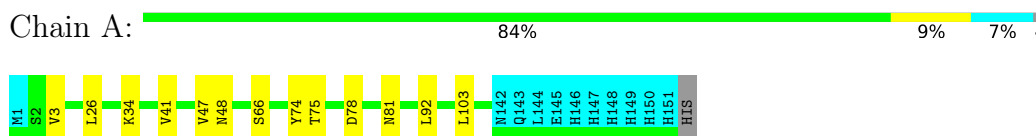
4.2.15 Score per residue for model 15

- Molecule 1: Serine protease



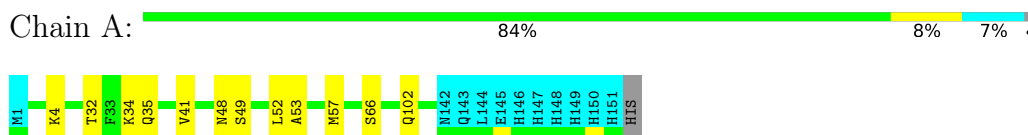
4.2.16 Score per residue for model 16

- Molecule 1: Serine protease



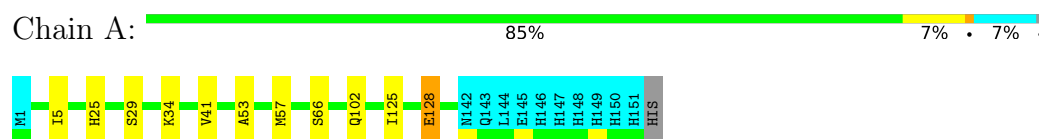
4.2.17 Score per residue for model 17 (medoid)

- Molecule 1: Serine protease



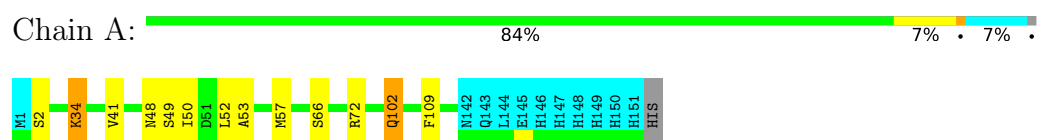
4.2.18 Score per residue for model 18

- Molecule 1: Serine protease



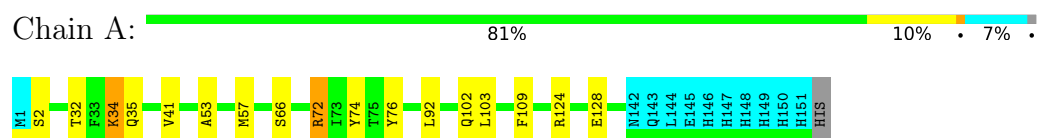
4.2.19 Score per residue for model 19

- Molecule 1: Serine protease



4.2.20 Score per residue for model 20

- Molecule 1: Serine protease



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 calculation | |
| 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 | 1786 |
| Number of shifts mapped to atoms | 1786 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 93% |

6 Model quality i

6.1 Standard geometry i

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

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts i

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1 | A | 1057 | 1039 | 1036 | 6±1 |
| All | All | 21220 | 20780 | 20712 | 114 |

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 3.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:25:HIS:HA | 1:A:29:SER:O | 0.54 | 2.02 | 11 | 4 |
| 1:A:94:CYS:SG | 1:A:124:ARG:HD2 | 0.52 | 2.45 | 4 | 1 |
| 1:A:22:LEU:HD13 | 1:A:39:ALA:HB1 | 0.52 | 1.82 | 11 | 3 |
| 1:A:85:VAL:HB | 1:A:130:TYR:CE1 | 0.52 | 2.39 | 14 | 1 |
| 1:A:32:THR:OG1 | 1:A:35:GLN:HG2 | 0.50 | 2.07 | 12 | 7 |
| 1:A:5:ILE:HB | 1:A:67:ASP:O | 0.49 | 2.08 | 14 | 6 |
| 1:A:26:LEU:HD21 | 1:A:47:VAL:HG12 | 0.49 | 1.85 | 16 | 1 |
| 1:A:53:ALA:O | 1:A:57:MET:HG2 | 0.48 | 2.08 | 15 | 18 |
| 1:A:34:LYS:HG2 | 1:A:109:PHE:CZ | 0.48 | 2.44 | 20 | 5 |
| 1:A:41:VAL:O | 1:A:66:SER:HB3 | 0.48 | 2.08 | 16 | 14 |
| 1:A:96:HIS:CD2 | 1:A:119:ILE:HB | 0.47 | 2.45 | 7 | 2 |
| 1:A:49:SER:O | 1:A:52:LEU:HG | 0.46 | 2.11 | 19 | 8 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|------------------|------------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:2:SER:HA | 1:A:72:ARG:O | 0.46 | 2.10 | 19 | 1 |
| 1:A:78:ASP:OD2 | 1:A:81:ASN:HA | 0.46 | 2.11 | 3 | 2 |
| 1:A:8:ILE:CD1 | 1:A:39:ALA:HA | 0.45 | 2.42 | 3 | 1 |
| 1:A:72:ARG:CZ | 1:A:74:TYR:HB3 | 0.45 | 2.42 | 20 | 1 |
| 1:A:5:ILE:CG2 | 1:A:41:VAL:HA | 0.45 | 2.41 | 15 | 3 |
| 1:A:102:GLN:N | 1:A:102:GLN:HE21 | 0.44 | 2.10 | 19 | 2 |
| 1:A:26:LEU:HD12 | 1:A:52:LEU:HD23 | 0.44 | 1.89 | 9 | 1 |
| 1:A:75:THR:HB | 1:A:78:ASP:HB3 | 0.44 | 1.88 | 1 | 3 |
| 1:A:23:LYS:O | 1:A:27:ILE:HG13 | 0.44 | 2.12 | 14 | 4 |
| 1:A:90:TYR:CE1 | 1:A:128:GLU:HB3 | 0.44 | 2.48 | 4 | 1 |
| 1:A:43:GLY:HA2 | 1:A:72:ARG:NH2 | 0.44 | 2.28 | 15 | 1 |
| 1:A:87:GLU:O | 1:A:91:ILE:HG13 | 0.43 | 2.12 | 15 | 3 |
| 1:A:41:VAL:O | 1:A:66:SER:HB2 | 0.43 | 2.13 | 5 | 2 |
| 1:A:92:LEU:O | 1:A:103:LEU:HD11 | 0.43 | 2.13 | 5 | 3 |
| 1:A:108:LEU:O | 1:A:119:ILE:HD11 | 0.43 | 2.13 | 3 | 3 |
| 1:A:125:ILE:O | 1:A:129:LYS:HG3 | 0.42 | 2.14 | 14 | 2 |
| 1:A:33:PHE:O | 1:A:109:PHE:HB2 | 0.42 | 2.14 | 14 | 1 |
| 1:A:5:ILE:HD11 | 1:A:72:ARG:HG2 | 0.42 | 1.92 | 7 | 1 |
| 1:A:132:THR:OG1 | 1:A:134:ARG:HG2 | 0.42 | 2.14 | 13 | 1 |
| 1:A:48:ASN:ND2 | 1:A:50:ILE:HB | 0.42 | 2.29 | 19 | 1 |
| 1:A:3:VAL:HG23 | 1:A:74:TYR:CE2 | 0.41 | 2.50 | 4 | 2 |
| 1:A:123:ASP:O | 1:A:127:ILE:HG12 | 0.41 | 2.15 | 15 | 1 |
| 1:A:125:ILE:HA | 1:A:128:GLU:HG3 | 0.40 | 1.91 | 9 | 1 |
| 1:A:102:GLN:HE21 | 1:A:102:GLN:N | 0.40 | 2.14 | 6 | 1 |
| 1:A:74:TYR:CE2 | 1:A:110:ALA:HA | 0.40 | 2.51 | 10 | 1 |
| 1:A:125:ILE:O | 1:A:128:GLU:HG3 | 0.40 | 2.17 | 18 | 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 | 140/152 (92%) | 132±2 (95±1%) | 7±2 (5±1%) | 1±1 (1±0%) | 32 | 76 |
| All | All | 2800/3040 (92%) | 2650 (95%) | 135 (5%) | 15 (1%) | 32 | 76 |

All 5 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 | 28 | ASN | 6 |
| 1 | A | 2 | SER | 4 |
| 1 | A | 65 | THR | 2 |
| 1 | A | 29 | SER | 2 |
| 1 | A | 63 | 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 | 115/127 (91%) | 111±1 (97±1%) | 4±1 (3±1%) | 40 87 |
| All | All | 2300/2540 (91%) | 2222 (97%) | 78 (3%) | 40 87 |

All 15 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 | 34 | LYS | 20 |
| 1 | A | 102 | GLN | 10 |
| 1 | A | 128 | GLU | 9 |
| 1 | A | 75 | THR | 5 |
| 1 | A | 124 | ARG | 5 |
| 1 | A | 81 | ASN | 4 |
| 1 | A | 48 | ASN | 4 |
| 1 | A | 11 | ASN | 3 |
| 1 | A | 28 | ASN | 3 |
| 1 | A | 103 | LEU | 3 |
| 1 | A | 88 | ASN | 3 |
| 1 | A | 72 | ARG | 3 |
| 1 | A | 71 | ASN | 3 |
| 1 | A | 4 | LYS | 2 |
| 1 | A | 52 | LEU | 1 |

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

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 93% for the well-defined parts and 90% 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 | 1786 |
| Number of shifts mapped to atoms | 1786 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 0 |

7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction \pm precision, ppm | Suggested action |
|------------------------|----------|---------------------------------|-------------------------|
| $^{13}\text{C}_\alpha$ | 148 | -0.35 ± 0.10 | None needed (< 0.5 ppm) |
| $^{13}\text{C}_\beta$ | 132 | 0.26 ± 0.09 | None needed (< 0.5 ppm) |
| $^{13}\text{C}'$ | 143 | -0.23 ± 0.10 | None needed (< 0.5 ppm) |
| ^{15}N | 142 | 0.06 ± 0.43 | 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 93%, i.e. 1687 atoms were assigned a chemical shift out of a possible 1821. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ^1H | ^{13}C | ^{15}N |
|-----------|----------------|---------------|-----------------|-----------------|
| Backbone | 692/714 (97%) | 286/295 (97%) | 274/280 (98%) | 132/139 (95%) |
| Sidechain | 923/1000 (92%) | 631/652 (97%) | 273/316 (86%) | 19/32 (59%) |

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| | Total | ¹ H | ¹³ C | ¹⁵ N |
|----------|-----------------|----------------|-----------------|-----------------|
| Aromatic | 72/107 (67%) | 36/50 (72%) | 36/51 (71%) | 0/6 (0%) |
| Overall | 1687/1821 (93%) | 953/997 (96%) | 583/647 (90%) | 151/177 (85%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 90%, i.e. 1786 atoms were assigned a chemical shift out of a possible 1989. 0 out of 20 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ¹ H | ¹³ C | ¹⁵ N |
|-----------|-----------------|-----------------|-----------------|-----------------|
| Backbone | 739/769 (96%) | 306/317 (97%) | 291/302 (96%) | 142/150 (95%) |
| Sidechain | 975/1065 (92%) | 666/694 (96%) | 288/337 (85%) | 21/34 (62%) |
| Aromatic | 72/155 (46%) | 36/74 (49%) | 36/63 (57%) | 0/18 (0%) |
| Overall | 1786/1989 (90%) | 1008/1085 (93%) | 615/702 (88%) | 163/202 (81%) |

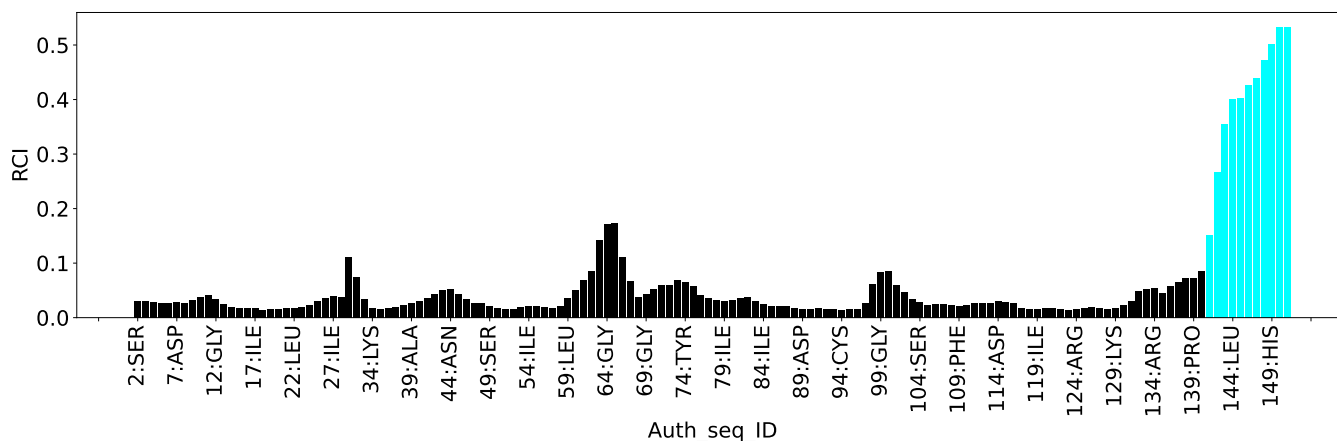
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

| Description | Value |
|--|-------|
| Total distance restraints | 4119 |
| Intra-residue ($ i-j =0$) | 1456 |
| Sequential ($ i-j =1$) | 890 |
| Medium range ($ i-j >1$ and $ i-j <5$) | 587 |
| Long range ($ i-j \geq 5$) | 1098 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 88 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 323 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 28.7 |
| Number of long range restraints per residue ¹ | 7.1 |

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

| Bins (Å) | Average number of violations per model | Max (Å) |
|------------------|--|---------|
| 0.1-0.2 (Small) | 54.4 | 0.2 |
| 0.2-0.5 (Medium) | 69.8 | 0.5 |
| >0.5 (Large) | 65.5 | 19.52 |

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

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

| Bins (°) | Average number of violations per model | Max (°) |
|--------------------|--|---------|
| 1.0-10.0 (Small) | 10.7 | 4.41 |
| 10.0-20.0 (Medium) | None | None |
| >20.0 (Large) | None | None |

9 Distance violation analysis [i](#)

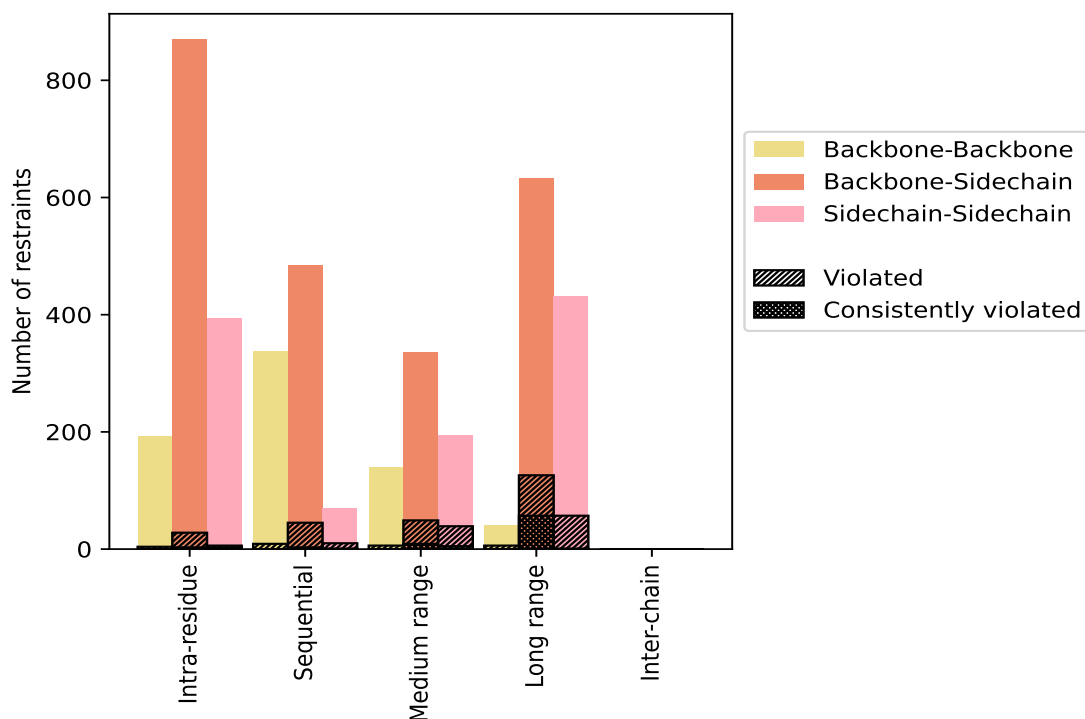
9.1 Summary of distance violations [i](#)

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

| Restrains type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|---|-------------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| Intra-residue ($i-j =0$) | 1456 | 35.3 | 38 | 2.6 | 0.9 | 6 | 0.4 | 0.1 |
| Backbone-Backbone | 193 | 4.7 | 4 | 2.1 | 0.1 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 870 | 21.1 | 28 | 3.2 | 0.7 | 3 | 0.3 | 0.1 |
| Sidechain-Sidechain | 393 | 9.5 | 6 | 1.5 | 0.1 | 3 | 0.8 | 0.1 |
| Sequential ($i-j =1$) | 890 | 21.6 | 64 | 7.2 | 1.6 | 4 | 0.4 | 0.1 |
| Backbone-Backbone | 337 | 8.2 | 9 | 2.7 | 0.2 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 484 | 11.8 | 45 | 9.3 | 1.1 | 3 | 0.6 | 0.1 |
| Sidechain-Sidechain | 69 | 1.7 | 10 | 14.5 | 0.2 | 1 | 1.4 | 0.0 |
| Medium range ($i-j >1$ & $i-j <5$) | 587 | 14.3 | 93 | 15.8 | 2.3 | 14 | 2.4 | 0.3 |
| Backbone-Backbone | 139 | 3.4 | 6 | 4.3 | 0.1 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 254 | 6.2 | 48 | 18.9 | 1.2 | 9 | 3.5 | 0.2 |
| Sidechain-Sidechain | 194 | 4.7 | 39 | 20.1 | 0.9 | 5 | 2.6 | 0.1 |
| Long range ($i-j \geq 5$) | 1098 | 26.7 | 189 | 17.2 | 4.6 | 58 | 5.3 | 1.4 |
| Backbone-Backbone | 40 | 1.0 | 6 | 15.0 | 0.1 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 627 | 15.2 | 126 | 20.1 | 3.1 | 57 | 9.1 | 1.4 |
| Sidechain-Sidechain | 431 | 10.5 | 57 | 13.2 | 1.4 | 1 | 0.2 | 0.0 |
| Inter-chain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Backbone | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Hydrogen bond | 88 | 2.1 | 1 | 1.1 | 0.0 | 0 | 0.0 | 0.0 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 4119 | 100.0 | 385 | 9.3 | 9.3 | 82 | 2.0 | 2.0 |
| Backbone-Backbone | 709 | 17.2 | 25 | 3.5 | 0.6 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 2323 | 56.4 | 248 | 10.7 | 6.0 | 72 | 3.1 | 1.7 |
| Sidechain-Sidechain | 1087 | 26.4 | 112 | 10.3 | 2.7 | 10 | 0.9 | 0.2 |

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

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



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

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

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

| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | Total | | | | |
| 1 | 26 | 24 | 28 | 107 | 0 | 185 | 4.08 | 18.26 | 6.44 | 0.36 |
| 2 | 23 | 36 | 34 | 100 | 0 | 193 | 4.11 | 19.24 | 6.68 | 0.33 |
| 3 | 17 | 33 | 44 | 105 | 0 | 199 | 3.89 | 18.49 | 6.46 | 0.3 |
| 4 | 21 | 24 | 39 | 106 | 0 | 190 | 4.02 | 19.02 | 6.49 | 0.31 |
| 5 | 22 | 27 | 35 | 105 | 0 | 189 | 4.09 | 18.45 | 6.59 | 0.31 |
| 6 | 21 | 27 | 41 | 97 | 0 | 186 | 4.15 | 18.16 | 6.59 | 0.33 |
| 7 | 18 | 28 | 42 | 107 | 0 | 195 | 3.95 | 18.82 | 6.46 | 0.33 |
| 8 | 21 | 40 | 38 | 105 | 0 | 204 | 3.88 | 19.2 | 6.53 | 0.31 |
| 9 | 18 | 33 | 40 | 103 | 0 | 194 | 4.04 | 18.38 | 6.57 | 0.32 |
| 10 | 18 | 31 | 35 | 105 | 0 | 189 | 3.86 | 18.3 | 6.22 | 0.33 |
| 11 | 20 | 32 | 40 | 97 | 0 | 189 | 3.96 | 18.42 | 6.36 | 0.31 |

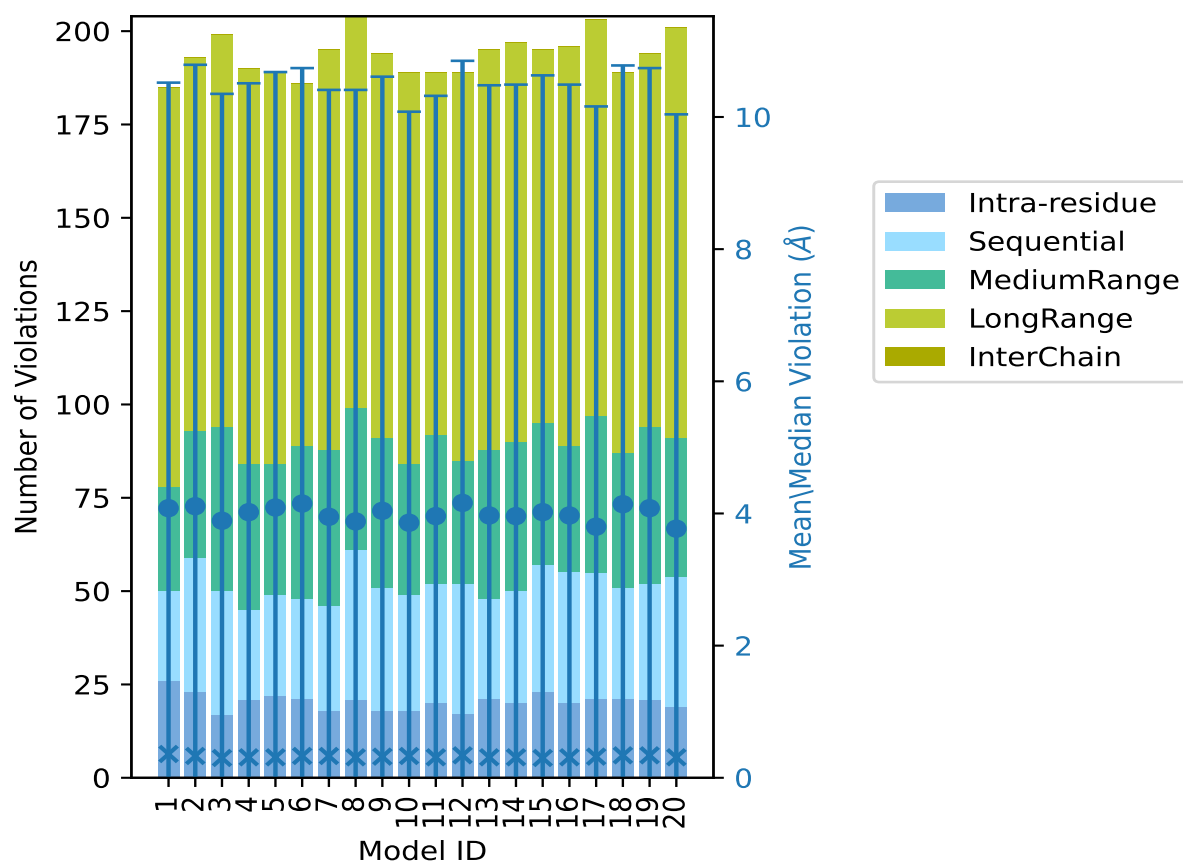
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| Model ID | Number of violations | | | | | Total | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | | | | | |
| 12 | 17 | 35 | 33 | 104 | 0 | 189 | 4.16 | 19.06 | 6.69 | 0.34 |
| 13 | 21 | 27 | 40 | 107 | 0 | 195 | 3.97 | 18.38 | 6.51 | 0.31 |
| 14 | 20 | 30 | 40 | 107 | 0 | 197 | 3.96 | 18.72 | 6.53 | 0.31 |
| 15 | 23 | 34 | 38 | 100 | 0 | 195 | 4.02 | 18.87 | 6.61 | 0.3 |
| 16 | 20 | 35 | 34 | 107 | 0 | 196 | 3.97 | 18.94 | 6.52 | 0.31 |
| 17 | 21 | 34 | 42 | 106 | 0 | 203 | 3.8 | 18.65 | 6.36 | 0.32 |
| 18 | 21 | 30 | 36 | 102 | 0 | 189 | 4.14 | 19.52 | 6.64 | 0.34 |
| 19 | 21 | 31 | 42 | 100 | 0 | 194 | 4.08 | 18.96 | 6.66 | 0.34 |
| 20 | 19 | 35 | 37 | 110 | 0 | 201 | 3.77 | 18.12 | 6.27 | 0.31 |

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

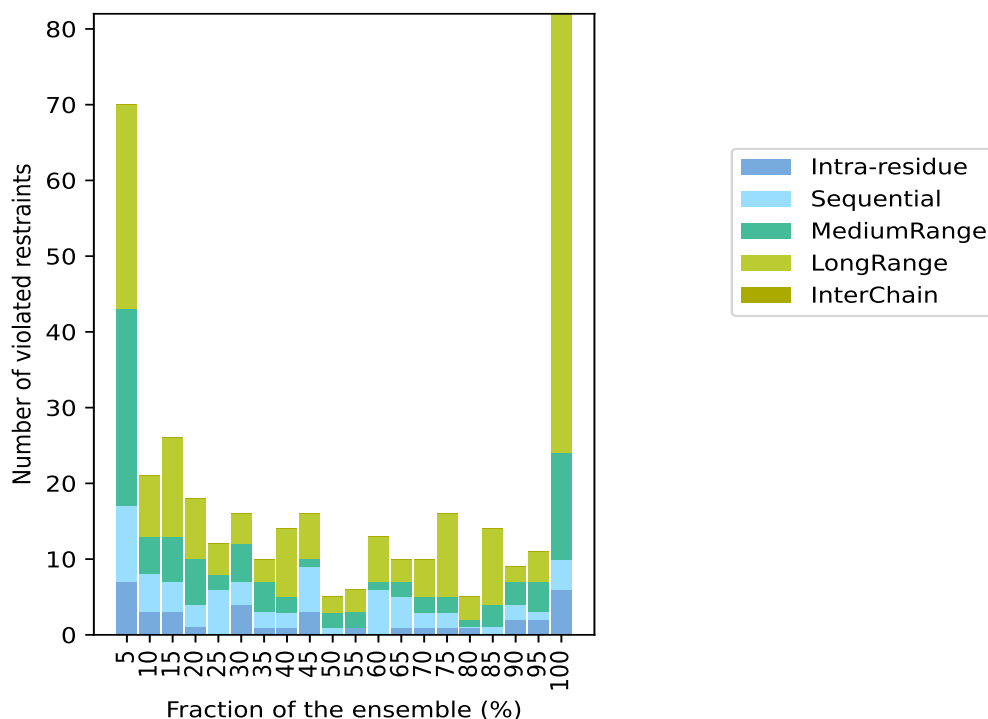
9.3 Distance violation statistics for the ensemble

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, 3647(IR:1418, SQ:826, MR:494, LR:909, 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 | % |
| 7 | 10 | 26 | 27 | 0 | 70 | 1 | 5.0 |
| 3 | 5 | 5 | 8 | 0 | 21 | 2 | 10.0 |
| 3 | 4 | 6 | 13 | 0 | 26 | 3 | 15.0 |
| 1 | 3 | 6 | 8 | 0 | 18 | 4 | 20.0 |
| 0 | 6 | 2 | 4 | 0 | 12 | 5 | 25.0 |
| 4 | 3 | 5 | 4 | 0 | 16 | 6 | 30.0 |
| 1 | 2 | 4 | 3 | 0 | 10 | 7 | 35.0 |
| 1 | 2 | 2 | 9 | 0 | 14 | 8 | 40.0 |
| 3 | 6 | 1 | 6 | 0 | 16 | 9 | 45.0 |
| 0 | 1 | 2 | 2 | 0 | 5 | 10 | 50.0 |
| 1 | 0 | 2 | 3 | 0 | 6 | 11 | 55.0 |
| 0 | 6 | 1 | 6 | 0 | 13 | 12 | 60.0 |
| 1 | 4 | 2 | 3 | 0 | 10 | 13 | 65.0 |
| 1 | 2 | 2 | 5 | 0 | 10 | 14 | 70.0 |
| 1 | 2 | 2 | 11 | 0 | 16 | 15 | 75.0 |
| 1 | 0 | 1 | 3 | 0 | 5 | 16 | 80.0 |
| 0 | 1 | 3 | 10 | 0 | 14 | 17 | 85.0 |
| 2 | 2 | 3 | 2 | 0 | 9 | 18 | 90.0 |
| 2 | 1 | 4 | 4 | 0 | 11 | 19 | 95.0 |
| 6 | 4 | 14 | 58 | 0 | 82 | 20 | 100.0 |

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

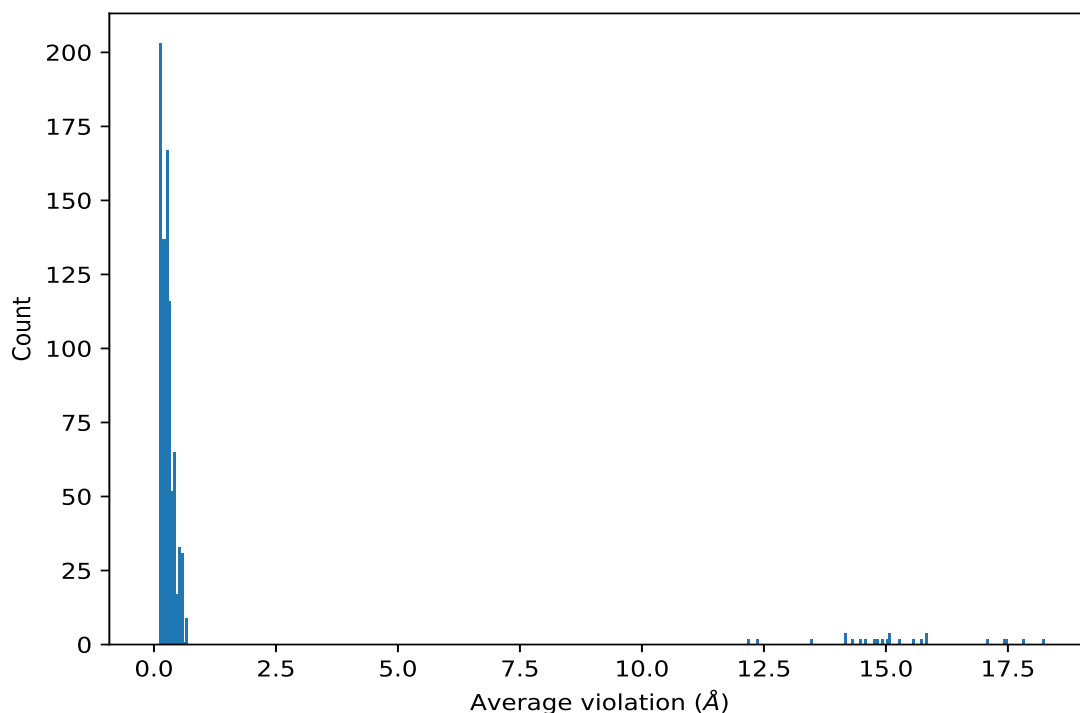
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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) |
|----------|-----------------|--------------|---------------------|----------|---------------------|------------|
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 18.21 | 0.67 | 18.34 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 18.21 | 0.67 | 18.34 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 20 | 17.83 | 0.69 | 17.64 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 20 | 17.83 | 0.69 | 17.64 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 17.49 | 0.82 | 17.21 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 17.49 | 0.82 | 17.21 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 20 | 17.43 | 0.3 | 17.42 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 20 | 17.43 | 0.3 | 17.42 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 20 | 17.06 | 0.33 | 17.1 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 20 | 17.06 | 0.33 | 17.1 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.82 | 0.68 | 15.85 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.82 | 0.68 | 15.85 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 20 | 15.82 | 0.6 | 15.78 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 20 | 15.82 | 0.6 | 15.78 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.74 | 0.55 | 15.69 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.74 | 0.55 | 15.69 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 20 | 15.56 | 0.53 | 15.46 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 20 | 15.56 | 0.53 | 15.46 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 15.26 | 0.34 | 15.14 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 15.26 | 0.34 | 15.14 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.09 | 0.92 | 14.96 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.09 | 0.92 | 14.96 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 20 | 15.06 | 1.07 | 15.16 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 20 | 15.06 | 1.07 | 15.16 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.02 | 1.37 | 14.8 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.02 | 1.37 | 14.8 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 20 | 14.94 | 0.82 | 14.77 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 20 | 14.94 | 0.82 | 14.77 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 20 | 14.83 | 0.31 | 14.79 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 20 | 14.83 | 0.31 | 14.79 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 20 | 14.75 | 0.44 | 14.78 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 20 | 14.75 | 0.44 | 14.78 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 20 | 14.56 | 0.73 | 14.9 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 20 | 14.56 | 0.73 | 14.9 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 20 | 14.48 | 1.07 | 14.67 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 20 | 14.48 | 1.07 | 14.67 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 20 | 14.31 | 0.92 | 14.46 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 20 | 14.31 | 0.92 | 14.46 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.17 | 0.78 | 13.68 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.17 | 0.78 | 13.68 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.15 | 0.61 | 13.93 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.15 | 0.61 | 13.93 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 13.48 | 0.55 | 13.39 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 13.48 | 0.55 | 13.39 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 12.38 | 0.89 | 12.58 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 12.38 | 0.89 | 12.58 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 12.19 | 0.24 | 12.24 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 12.19 | 0.24 | 12.24 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,1032) | 1:79:A:ILE:HD11 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,1032) | 1:79:A:ILE:HD12 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,1032) | 1:79:A:ILE:HD13 | 1:112:A:ASP:H | 20 | 0.66 | 0.07 | 0.66 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 20 | 0.64 | 0.08 | 0.64 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 20 | 0.6 | 0.07 | 0.6 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 20 | 0.6 | 0.07 | 0.6 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 20 | 0.6 | 0.07 | 0.6 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 20 | 0.6 | 0.07 | 0.6 |
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 20 | 0.6 | 0.07 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD11 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD12 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD13 | 20 | 0.58 | 0.06 | 0.58 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 20 | 0.58 | 0.07 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 20 | 0.58 | 0.07 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 20 | 0.58 | 0.07 | 0.57 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD11 | 20 | 0.58 | 0.07 | 0.57 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD12 | 20 | 0.58 | 0.07 | 0.57 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD13 | 20 | 0.58 | 0.07 | 0.57 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 20 | 0.54 | 0.18 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 20 | 0.54 | 0.18 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 20 | 0.54 | 0.18 | 0.56 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 20 | 0.54 | 0.11 | 0.57 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 20 | 0.54 | 0.11 | 0.57 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 20 | 0.54 | 0.11 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 20 | 0.54 | 0.11 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 20 | 0.54 | 0.11 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 20 | 0.54 | 0.11 | 0.57 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 20 | 0.52 | 0.12 | 0.51 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 20 | 0.52 | 0.12 | 0.51 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 20 | 0.52 | 0.12 | 0.51 |
| (1,2523) | 1:137:A:HIS:HB3 | 1:135:A:ILE:HG13 | 20 | 0.52 | 0.12 | 0.51 |
| (1,2306) | 1:73:A:ILE:H | 1:5:A:ILE:HG13 | 20 | 0.51 | 0.22 | 0.48 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 20 | 0.51 | 0.22 | 0.48 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,929) | 1:3:A:VAL:HG11 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,929) | 1:3:A:VAL:HG12 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,929) | 1:3:A:VAL:HG13 | 1:34:A:LYS:H | 20 | 0.48 | 0.15 | 0.48 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD11 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD12 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD13 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 20 | 0.44 | 0.14 | 0.42 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:21:A:ILE:HD11 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:21:A:ILE:HD12 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,1238) | 1:21:A:ILE:HD13 | 1:20:A:ALA:H | 20 | 0.42 | 0.17 | 0.48 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 0.41 | 0.07 | 0.41 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 20 | 0.41 | 0.06 | 0.41 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 20 | 0.41 | 0.06 | 0.41 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 20 | 0.41 | 0.06 | 0.41 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 20 | 0.39 | 0.04 | 0.39 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 20 | 0.39 | 0.09 | 0.38 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 20 | 0.39 | 0.09 | 0.38 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 20 | 0.38 | 0.08 | 0.4 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 20 | 0.38 | 0.08 | 0.4 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 20 | 0.38 | 0.08 | 0.4 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 20 | 0.36 | 0.09 | 0.36 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 20 | 0.36 | 0.09 | 0.36 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 20 | 0.35 | 0.12 | 0.38 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 20 | 0.35 | 0.12 | 0.38 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 20 | 0.35 | 0.12 | 0.38 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD21 | 20 | 0.35 | 0.12 | 0.38 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD22 | 20 | 0.35 | 0.12 | 0.38 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD23 | 20 | 0.35 | 0.12 | 0.38 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 20 | 0.35 | 0.03 | 0.36 |
| (1,3171) | 1:103:A:LEU:HG | 1:107:A:SER:HB3 | 20 | 0.35 | 0.03 | 0.36 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 20 | 0.34 | 0.1 | 0.34 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 20 | 0.34 | 0.1 | 0.34 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 20 | 0.34 | 0.1 | 0.34 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 0.34 | 0.1 | 0.34 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 0.34 | 0.1 | 0.34 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 0.34 | 0.1 | 0.34 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 20 | 0.33 | 0.05 | 0.34 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 20 | 0.32 | 0.08 | 0.32 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 20 | 0.32 | 0.08 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 20 | 0.32 | 0.08 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 20 | 0.32 | 0.08 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 20 | 0.32 | 0.08 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 20 | 0.32 | 0.08 | 0.32 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 20 | 0.3 | 0.07 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 20 | 0.29 | 0.05 | 0.3 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 20 | 0.29 | 0.05 | 0.3 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 20 | 0.29 | 0.05 | 0.3 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 20 | 0.28 | 0.07 | 0.28 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 20 | 0.28 | 0.07 | 0.28 |
| (1,3871) | 1:11:A:ASN:H | 1:7:A:ASP:HB3 | 20 | 0.28 | 0.07 | 0.28 |
| (1,3871) | 1:21:A:ILE:H | 1:9:A:ASP:HB3 | 20 | 0.28 | 0.07 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 20 | 0.27 | 0.02 | 0.28 |
| (1,2001) | 1:11:A:ASN:HD22 | 1:11:A:ASN:HB3 | 20 | 0.27 | 0.02 | 0.28 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 20 | 0.26 | 0.05 | 0.26 |
| (1,2379) | 1:102:A:GLN:HA | 1:108:A:LEU:HG | 20 | 0.26 | 0.05 | 0.26 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 20 | 0.25 | 0.07 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 20 | 0.25 | 0.07 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 20 | 0.25 | 0.07 | 0.24 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 20 | 0.25 | 0.1 | 0.22 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 20 | 0.25 | 0.1 | 0.22 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 20 | 0.25 | 0.1 | 0.22 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 20 | 0.25 | 0.08 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 20 | 0.25 | 0.08 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 20 | 0.25 | 0.08 | 0.26 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD11 | 20 | 0.25 | 0.08 | 0.26 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD12 | 20 | 0.25 | 0.08 | 0.26 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD13 | 20 | 0.25 | 0.08 | 0.26 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 20 | 0.2 | 0.04 | 0.21 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 20 | 0.2 | 0.04 | 0.21 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 20 | 0.2 | 0.04 | 0.21 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 20 | 0.2 | 0.05 | 0.2 |
| (1,2180) | 1:20:A:ALA:HB1 | 1:23:A:LYS:HB2 | 20 | 0.2 | 0.05 | 0.2 |
| (1,2180) | 1:20:A:ALA:HB2 | 1:23:A:LYS:HB2 | 20 | 0.2 | 0.05 | 0.2 |
| (1,2180) | 1:20:A:ALA:HB3 | 1:23:A:LYS:HB2 | 20 | 0.2 | 0.05 | 0.2 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 20 | 0.14 | 0.02 | 0.14 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 19 | 0.58 | 0.16 | 0.47 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 19 | 0.56 | 0.1 | 0.58 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 19 | 0.56 | 0.1 | 0.58 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 19 | 0.56 | 0.1 | 0.58 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 19 | 0.56 | 0.1 | 0.58 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 19 | 0.54 | 0.1 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 19 | 0.54 | 0.1 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 19 | 0.54 | 0.1 | 0.56 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD11 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD12 | 19 | 0.4 | 0.1 | 0.38 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD13 | 19 | 0.4 | 0.1 | 0.38 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 19 | 0.34 | 0.07 | 0.34 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD21 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD22 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD23 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD21 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD22 | 19 | 0.31 | 0.12 | 0.32 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD23 | 19 | 0.31 | 0.12 | 0.32 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 19 | 0.26 | 0.03 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 19 | 0.26 | 0.03 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 19 | 0.26 | 0.03 | 0.27 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 19 | 0.25 | 0.04 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 19 | 0.25 | 0.04 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 19 | 0.25 | 0.04 | 0.24 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 19 | 0.2 | 0.05 | 0.21 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 19 | 0.2 | 0.05 | 0.21 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 19 | 0.2 | 0.05 | 0.21 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 19 | 0.2 | 0.08 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 19 | 0.14 | 0.02 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 19 | 0.14 | 0.02 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 19 | 0.14 | 0.02 | 0.14 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 18 | 0.52 | 0.16 | 0.5 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 18 | 0.52 | 0.16 | 0.5 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 18 | 0.52 | 0.16 | 0.5 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 18 | 0.39 | 0.08 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD21 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD22 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD23 | 18 | 0.35 | 0.05 | 0.35 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG21 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG22 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG23 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG21 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG22 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG23 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG21 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG22 | 18 | 0.34 | 0.13 | 0.32 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG23 | 18 | 0.34 | 0.13 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 18 | 0.29 | 0.01 | 0.29 |
| (1,2499) | 1:62:A:LYS:HA | 1:62:A:LYS:HG3 | 18 | 0.29 | 0.01 | 0.29 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,1137) | 1:79:A:ILE:HD11 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,1137) | 1:79:A:ILE:HD12 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,1137) | 1:79:A:ILE:HD13 | 1:96:A:HIS:H | 18 | 0.25 | 0.07 | 0.24 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 18 | 0.15 | 0.03 | 0.14 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 18 | 0.15 | 0.02 | 0.15 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 18 | 0.13 | 0.02 | 0.13 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,1067) | 1:60:A:LEU:HD21 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,1067) | 1:60:A:LEU:HD22 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,1067) | 1:60:A:LEU:HD23 | 1:63:A:GLY:H | 17 | 0.58 | 0.12 | 0.61 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 17 | 0.37 | 0.11 | 0.38 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 17 | 0.37 | 0.11 | 0.38 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 17 | 0.37 | 0.11 | 0.38 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 17 | 0.32 | 0.11 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 17 | 0.32 | 0.11 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 17 | 0.32 | 0.11 | 0.35 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 17 | 0.32 | 0.11 | 0.35 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 17 | 0.32 | 0.11 | 0.35 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 17 | 0.32 | 0.11 | 0.35 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 17 | 0.31 | 0.12 | 0.33 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 17 | 0.31 | 0.12 | 0.33 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 17 | 0.31 | 0.12 | 0.33 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 17 | 0.3 | 0.14 | 0.23 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 17 | 0.28 | 0.07 | 0.28 |
| (1,1221) | 1:57:A:MET:HB2 | 1:63:A:GLY:H | 17 | 0.28 | 0.07 | 0.28 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 17 | 0.28 | 0.14 | 0.25 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 17 | 0.28 | 0.14 | 0.25 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 17 | 0.28 | 0.14 | 0.25 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB1 | 17 | 0.28 | 0.14 | 0.25 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB2 | 17 | 0.28 | 0.14 | 0.25 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB3 | 17 | 0.28 | 0.14 | 0.25 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 17 | 0.27 | 0.04 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG21 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG22 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG23 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG21 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG22 | 17 | 0.27 | 0.04 | 0.29 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG23 | 17 | 0.27 | 0.04 | 0.29 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 17 | 0.24 | 0.09 | 0.21 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 17 | 0.24 | 0.09 | 0.21 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 17 | 0.24 | 0.09 | 0.21 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 17 | 0.23 | 0.07 | 0.21 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 17 | 0.23 | 0.07 | 0.21 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 17 | 0.23 | 0.07 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 17 | 0.23 | 0.07 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 17 | 0.23 | 0.07 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 17 | 0.23 | 0.07 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 17 | 0.23 | 0.04 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 17 | 0.23 | 0.04 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD21 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD22 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD23 | 1:49:A:SER:H | 17 | 0.22 | 0.07 | 0.21 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 17 | 0.19 | 0.04 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 17 | 0.19 | 0.04 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 17 | 0.19 | 0.04 | 0.18 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 17 | 0.18 | 0.04 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 17 | 0.18 | 0.04 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 17 | 0.18 | 0.04 | 0.17 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 17 | 0.13 | 0.02 | 0.13 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 16 | 0.51 | 0.21 | 0.44 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 16 | 0.51 | 0.21 | 0.44 |
| (1,1150) | 1:134:A:ARG:HB3 | 1:129:A:LYS:H | 16 | 0.51 | 0.21 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,3890) | 1:73:A:ILE:H | 1:2:A:SER:HB2 | 16 | 0.48 | 0.17 | 0.46 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 16 | 0.48 | 0.17 | 0.46 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 16 | 0.48 | 0.17 | 0.46 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 16 | 0.28 | 0.09 | 0.29 |
| (1,386) | 1:96:A:HIS:HB3 | 1:119:A:ILE:H | 16 | 0.28 | 0.09 | 0.29 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 16 | 0.24 | 0.09 | 0.22 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 16 | 0.24 | 0.09 | 0.22 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 16 | 0.24 | 0.09 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB1 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB2 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB3 | 16 | 0.23 | 0.05 | 0.22 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG21 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG22 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG23 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG21 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG22 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG23 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG21 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG22 | 15 | 0.44 | 0.2 | 0.45 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG23 | 15 | 0.44 | 0.2 | 0.45 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 15 | 0.42 | 0.13 | 0.48 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 15 | 0.42 | 0.13 | 0.48 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 15 | 0.42 | 0.13 | 0.48 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG21 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG22 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG23 | 15 | 0.4 | 0.1 | 0.4 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 15 | 0.39 | 0.18 | 0.38 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 15 | 0.39 | 0.18 | 0.38 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 15 | 0.39 | 0.18 | 0.38 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 15 | 0.38 | 0.17 | 0.35 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 15 | 0.37 | 0.13 | 0.36 |
| (1,1813) | 1:19:A:TYR:HD1 | 1:23:A:LYS:HE2 | 15 | 0.37 | 0.13 | 0.36 |
| (1,1813) | 1:19:A:TYR:HD2 | 1:23:A:LYS:HE2 | 15 | 0.37 | 0.13 | 0.36 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 15 | 0.34 | 0.11 | 0.3 |
| (1,1806) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HD3 | 15 | 0.34 | 0.11 | 0.3 |
| (1,1806) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HD3 | 15 | 0.34 | 0.11 | 0.3 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD11 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD12 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD13 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD11 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD12 | 15 | 0.29 | 0.1 | 0.31 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD13 | 15 | 0.29 | 0.1 | 0.31 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 15 | 0.29 | 0.11 | 0.27 |
| (1,1132) | 1:134:A:ARG:HG2 | 1:130:A:TYR:H | 15 | 0.29 | 0.11 | 0.27 |
| (1,1132) | 1:134:A:ARG:HG3 | 1:130:A:TYR:H | 15 | 0.29 | 0.11 | 0.27 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 15 | 0.24 | 0.07 | 0.28 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 15 | 0.19 | 0.05 | 0.22 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 15 | 0.19 | 0.06 | 0.18 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 15 | 0.19 | 0.06 | 0.18 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 15 | 0.19 | 0.06 | 0.18 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD11 | 15 | 0.19 | 0.06 | 0.18 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD12 | 15 | 0.19 | 0.06 | 0.18 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD13 | 15 | 0.19 | 0.06 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 15 | 0.18 | 0.04 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 15 | 0.18 | 0.04 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 15 | 0.18 | 0.04 | 0.18 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 15 | 0.18 | 0.03 | 0.17 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 15 | 0.18 | 0.03 | 0.17 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 15 | 0.18 | 0.03 | 0.17 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 15 | 0.14 | 0.02 | 0.14 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 15 | 0.14 | 0.02 | 0.14 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 15 | 0.11 | 0.01 | 0.11 |
| (1,359) | 1:83:A:GLY:HA3 | 1:83:A:GLY:H | 15 | 0.11 | 0.01 | 0.11 |
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG21 | 14 | 0.46 | 0.22 | 0.43 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG22 | 14 | 0.46 | 0.22 | 0.43 |
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG23 | 14 | 0.46 | 0.22 | 0.43 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 14 | 0.46 | 0.22 | 0.43 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 14 | 0.46 | 0.22 | 0.43 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 14 | 0.46 | 0.22 | 0.43 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 14 | 0.4 | 0.08 | 0.42 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 14 | 0.29 | 0.08 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 14 | 0.29 | 0.08 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 14 | 0.29 | 0.08 | 0.29 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 14 | 0.26 | 0.05 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 14 | 0.26 | 0.05 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 14 | 0.26 | 0.05 | 0.25 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 14 | 0.23 | 0.07 | 0.24 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 14 | 0.23 | 0.07 | 0.24 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 14 | 0.23 | 0.07 | 0.24 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 14 | 0.21 | 0.08 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 14 | 0.21 | 0.08 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 14 | 0.21 | 0.08 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,1091) | 1:108:A:LEU:HD21 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,1091) | 1:108:A:LEU:HD22 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,1091) | 1:108:A:LEU:HD23 | 1:104:A:SER:H | 14 | 0.21 | 0.09 | 0.18 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 14 | 0.2 | 0.07 | 0.2 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 14 | 0.2 | 0.07 | 0.2 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 14 | 0.18 | 0.03 | 0.18 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 14 | 0.13 | 0.02 | 0.13 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 14 | 0.13 | 0.02 | 0.13 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 14 | 0.13 | 0.02 | 0.13 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 13 | 0.37 | 0.12 | 0.35 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 13 | 0.36 | 0.12 | 0.4 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 13 | 0.31 | 0.11 | 0.36 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 13 | 0.31 | 0.11 | 0.36 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 13 | 0.3 | 0.08 | 0.27 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 13 | 0.3 | 0.08 | 0.27 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 13 | 0.3 | 0.08 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 13 | 0.3 | 0.08 | 0.27 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 13 | 0.29 | 0.11 | 0.27 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 13 | 0.24 | 0.09 | 0.21 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 13 | 0.24 | 0.09 | 0.21 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 13 | 0.24 | 0.09 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 13 | 0.21 | 0.06 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 13 | 0.21 | 0.06 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 13 | 0.21 | 0.06 | 0.21 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB1 | 13 | 0.15 | 0.03 | 0.16 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB2 | 13 | 0.15 | 0.03 | 0.16 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB3 | 13 | 0.15 | 0.03 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 13 | 0.15 | 0.03 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 13 | 0.15 | 0.03 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 13 | 0.15 | 0.03 | 0.16 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 13 | 0.14 | 0.03 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 13 | 0.14 | 0.03 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 13 | 0.14 | 0.03 | 0.14 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 13 | 0.14 | 0.02 | 0.14 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 12 | 0.7 | 0.16 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 12 | 0.7 | 0.16 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 12 | 0.7 | 0.16 | 0.75 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 12 | 0.47 | 0.09 | 0.5 |
| (1,3635) | 1:76:A:TYR:HB2 | 1:113:A:ALA:HA | 12 | 0.47 | 0.09 | 0.5 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 12 | 0.33 | 0.15 | 0.35 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 12 | 0.33 | 0.15 | 0.35 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 12 | 0.33 | 0.15 | 0.35 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG21 | 12 | 0.33 | 0.15 | 0.35 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG22 | 12 | 0.33 | 0.15 | 0.35 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG23 | 12 | 0.33 | 0.15 | 0.35 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 12 | 0.28 | 0.07 | 0.29 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 12 | 0.28 | 0.07 | 0.29 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 12 | 0.28 | 0.07 | 0.29 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 12 | 0.28 | 0.07 | 0.29 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 12 | 0.26 | 0.11 | 0.24 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 12 | 0.17 | 0.04 | 0.16 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 12 | 0.17 | 0.04 | 0.16 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 12 | 0.17 | 0.04 | 0.16 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 12 | 0.17 | 0.06 | 0.16 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 12 | 0.16 | 0.03 | 0.16 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 12 | 0.16 | 0.03 | 0.16 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 12 | 0.16 | 0.03 | 0.16 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |
| (1,1122) | 1:91:A:ILE:HG21 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |
| (1,1122) | 1:91:A:ILE:HG22 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |
| (1,1122) | 1:91:A:ILE:HG23 | 1:94:A:CYS:H | 12 | 0.15 | 0.03 | 0.16 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 12 | 0.15 | 0.03 | 0.14 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 12 | 0.14 | 0.02 | 0.15 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD21 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD22 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD23 | 1:127:A:ILE:H | 12 | 0.13 | 0.02 | 0.12 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 12 | 0.11 | 0.01 | 0.11 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 11 | 0.55 | 0.13 | 0.56 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 11 | 0.34 | 0.13 | 0.36 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 11 | 0.34 | 0.13 | 0.36 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 11 | 0.34 | 0.13 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 11 | 0.34 | 0.13 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 11 | 0.34 | 0.13 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 11 | 0.34 | 0.13 | 0.36 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 11 | 0.33 | 0.22 | 0.21 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 11 | 0.33 | 0.22 | 0.21 |
| (1,3875) | 1:35:A:GLN:HB2 | 1:8:A:ILE:HG12 | 11 | 0.33 | 0.22 | 0.21 |
| (1,3875) | 1:35:A:GLN:HB2 | 1:8:A:ILE:HG13 | 11 | 0.33 | 0.22 | 0.21 |
| (1,2145) | 1:2:A:SER:HB2 | 1:3:A:VAL:HB | 11 | 0.29 | 0.13 | 0.25 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 11 | 0.29 | 0.13 | 0.25 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 11 | 0.25 | 0.06 | 0.25 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 11 | 0.13 | 0.01 | 0.13 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 10 | 0.21 | 0.09 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 10 | 0.21 | 0.09 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 10 | 0.21 | 0.09 | 0.18 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 10 | 0.19 | 0.04 | 0.2 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 10 | 0.19 | 0.04 | 0.2 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 10 | 0.17 | 0.03 | 0.18 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 10 | 0.17 | 0.03 | 0.18 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 10 | 0.17 | 0.03 | 0.18 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 10 | 0.17 | 0.03 | 0.18 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 10 | 0.17 | 0.03 | 0.18 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 10 | 0.17 | 0.03 | 0.18 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD11 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD12 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD13 | 1:16:A:SER:H | 10 | 0.16 | 0.05 | 0.15 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 10 | 0.12 | 0.01 | 0.11 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 9 | 0.55 | 0.06 | 0.56 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 9 | 0.55 | 0.06 | 0.56 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 9 | 0.36 | 0.2 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 9 | 0.34 | 0.1 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 9 | 0.34 | 0.1 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 9 | 0.34 | 0.1 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 9 | 0.34 | 0.1 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 9 | 0.34 | 0.1 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 9 | 0.34 | 0.1 | 0.31 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 9 | 0.31 | 0.07 | 0.32 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 9 | 0.31 | 0.07 | 0.32 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 9 | 0.31 | 0.07 | 0.32 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 9 | 0.28 | 0.16 | 0.19 |
| (1,3274) | 1:106:A:ALA:HA | 1:72:A:ARG:HD2 | 9 | 0.28 | 0.16 | 0.19 |
| (1,3274) | 1:43:A:GLY:HA2 | 1:72:A:ARG:HD2 | 9 | 0.28 | 0.16 | 0.19 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 9 | 0.2 | 0.1 | 0.17 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 9 | 0.2 | 0.09 | 0.16 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 9 | 0.2 | 0.09 | 0.16 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 9 | 0.2 | 0.09 | 0.16 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 9 | 0.18 | 0.07 | 0.15 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 9 | 0.18 | 0.07 | 0.15 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 9 | 0.18 | 0.07 | 0.15 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 9 | 0.18 | 0.05 | 0.17 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 9 | 0.17 | 0.04 | 0.16 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 9 | 0.17 | 0.04 | 0.16 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 9 | 0.17 | 0.04 | 0.16 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 9 | 0.15 | 0.01 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 9 | 0.14 | 0.03 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 9 | 0.14 | 0.03 | 0.13 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 9 | 0.14 | 0.04 | 0.13 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 9 | 0.14 | 0.04 | 0.13 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 9 | 0.14 | 0.04 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 9 | 0.13 | 0.02 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 9 | 0.13 | 0.02 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 9 | 0.13 | 0.02 | 0.13 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 9 | 0.12 | 0.01 | 0.12 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 9 | 0.11 | 0.01 | 0.11 |
| (1,3696) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD11 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD12 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD13 | 1:102:A:GLN:HG3 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD21 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD22 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD23 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD11 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD12 | 8 | 0.3 | 0.09 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD13 | 8 | 0.3 | 0.09 | 0.29 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 8 | 0.29 | 0.08 | 0.29 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 8 | 0.25 | 0.06 | 0.26 |
| (1,3074) | 1:72:A:ARG:HB2 | 1:71:A:ASN:HA | 8 | 0.25 | 0.06 | 0.26 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG21 | 8 | 0.24 | 0.09 | 0.24 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG22 | 8 | 0.24 | 0.09 | 0.24 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG23 | 8 | 0.24 | 0.09 | 0.24 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 8 | 0.24 | 0.09 | 0.24 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 8 | 0.24 | 0.09 | 0.24 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 8 | 0.24 | 0.09 | 0.24 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 8 | 0.23 | 0.06 | 0.23 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 8 | 0.23 | 0.06 | 0.23 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |
| (1,933) | 1:47:A:VAL:HG11 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|-----------------|---------------------|----------|---------------------|------------|
| (1,933) | 1:47:A:VAL:HG12 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |
| (1,933) | 1:47:A:VAL:HG13 | 1:26:A:LEU:H | 8 | 0.2 | 0.05 | 0.2 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 8 | 0.19 | 0.05 | 0.2 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 8 | 0.19 | 0.07 | 0.17 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 8 | 0.19 | 0.07 | 0.17 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 8 | 0.19 | 0.07 | 0.17 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG21 | 8 | 0.19 | 0.07 | 0.17 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG22 | 8 | 0.19 | 0.07 | 0.17 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG23 | 8 | 0.19 | 0.07 | 0.17 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 8 | 0.17 | 0.04 | 0.18 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 8 | 0.17 | 0.04 | 0.18 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 8 | 0.17 | 0.04 | 0.18 |
| (1,772) | 1:23:A:LYS:HD2 | 1:23:A:LYS:H | 8 | 0.17 | 0.04 | 0.18 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 8 | 0.17 | 0.05 | 0.18 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 8 | 0.17 | 0.05 | 0.18 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 8 | 0.17 | 0.05 | 0.18 |
| (1,1534) | 1:17:A:ILE:HB | 1:17:A:ILE:HA | 8 | 0.17 | 0.05 | 0.18 |
| (1,1177) | 1:92:A:LEU:HD21 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:92:A:LEU:HD22 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:92:A:LEU:HD23 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:79:A:ILE:HD11 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:79:A:ILE:HD12 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1177) | 1:79:A:ILE:HD13 | 1:89:A:ASP:H | 8 | 0.15 | 0.03 | 0.15 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 8 | 0.13 | 0.02 | 0.12 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 8 | 0.12 | 0.01 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 8 | 0.12 | 0.01 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 8 | 0.12 | 0.01 | 0.11 |
| (1,3019) | 1:54:A:ILE:HA | 1:65:A:THR:HB | 7 | 0.33 | 0.15 | 0.29 |
| (1,3019) | 1:63:A:GLY:HA2 | 1:65:A:THR:HB | 7 | 0.33 | 0.15 | 0.29 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 7 | 0.28 | 0.1 | 0.32 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD1 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD2 | 7 | 0.28 | 0.12 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD1 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD2 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD1 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD2 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD1 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD2 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD1 | 7 | 0.25 | 0.05 | 0.26 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD2 | 7 | 0.25 | 0.05 | 0.26 |
| (1,1859) | 1:27:A:ILE:HD11 | 1:23:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,1859) | 1:27:A:ILE:HD12 | 1:23:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,1859) | 1:27:A:ILE:HD13 | 1:23:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,1859) | 1:60:A:LEU:HD21 | 1:62:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,1859) | 1:60:A:LEU:HD22 | 1:62:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,1859) | 1:60:A:LEU:HD23 | 1:62:A:LYS:HE2 | 7 | 0.2 | 0.06 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 7 | 0.19 | 0.06 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 7 | 0.19 | 0.06 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 7 | 0.19 | 0.06 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 7 | 0.19 | 0.06 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 7 | 0.19 | 0.06 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 7 | 0.19 | 0.06 | 0.17 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 7 | 0.17 | 0.03 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 7 | 0.17 | 0.03 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 7 | 0.17 | 0.03 | 0.19 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 7 | 0.13 | 0.03 | 0.12 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 7 | 0.13 | 0.03 | 0.12 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 7 | 0.13 | 0.03 | 0.12 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 7 | 0.12 | 0.02 | 0.12 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 7 | 0.12 | 0.02 | 0.12 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 7 | 0.12 | 0.02 | 0.12 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 7 | 0.11 | 0.01 | 0.11 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 6 | 0.35 | 0.14 | 0.4 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 6 | 0.35 | 0.14 | 0.4 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 6 | 0.35 | 0.14 | 0.4 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 6 | 0.27 | 0.09 | 0.28 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 6 | 0.27 | 0.09 | 0.28 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 6 | 0.27 | 0.09 | 0.28 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 6 | 0.27 | 0.09 | 0.28 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 6 | 0.27 | 0.09 | 0.28 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 6 | 0.27 | 0.09 | 0.28 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 6 | 0.27 | 0.09 | 0.28 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 6 | 0.27 | 0.09 | 0.28 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 6 | 0.27 | 0.09 | 0.28 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 6 | 0.27 | 0.09 | 0.28 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 6 | 0.23 | 0.05 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 6 | 0.23 | 0.05 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 6 | 0.23 | 0.05 | 0.25 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 6 | 0.23 | 0.06 | 0.24 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 6 | 0.23 | 0.06 | 0.24 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 6 | 0.23 | 0.06 | 0.24 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 6 | 0.22 | 0.1 | 0.18 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 6 | 0.22 | 0.1 | 0.18 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 6 | 0.22 | 0.1 | 0.18 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 6 | 0.19 | 0.04 | 0.2 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 6 | 0.19 | 0.05 | 0.18 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 6 | 0.19 | 0.05 | 0.18 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 6 | 0.19 | 0.05 | 0.18 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 6 | 0.19 | 0.05 | 0.19 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD21 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD22 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD23 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD21 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD22 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD23 | 6 | 0.18 | 0.05 | 0.16 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 6 | 0.17 | 0.04 | 0.17 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 6 | 0.17 | 0.04 | 0.17 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 6 | 0.16 | 0.03 | 0.16 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 6 | 0.16 | 0.03 | 0.16 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 6 | 0.16 | 0.03 | 0.16 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 6 | 0.12 | 0.02 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 6 | 0.12 | 0.02 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 6 | 0.12 | 0.02 | 0.12 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 6 | 0.12 | 0.01 | 0.12 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 6 | 0.12 | 0.01 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|------------------|---------------------|----------|---------------------|------------|
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 5 | 0.37 | 0.1 | 0.38 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 5 | 0.31 | 0.07 | 0.35 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 5 | 0.21 | 0.1 | 0.21 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 5 | 0.21 | 0.1 | 0.21 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 5 | 0.18 | 0.03 | 0.18 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 5 | 0.18 | 0.06 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 5 | 0.18 | 0.06 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 5 | 0.18 | 0.06 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 5 | 0.18 | 0.06 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 5 | 0.18 | 0.06 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 5 | 0.18 | 0.06 | 0.16 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD11 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD12 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD13 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD11 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD12 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD13 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD11 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD12 | 5 | 0.15 | 0.02 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD13 | 5 | 0.15 | 0.02 | 0.16 |
| (1,1840) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1840) | 1:57:A:MET:HE1 | 1:62:A:LYS:HE2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1840) | 1:57:A:MET:HE2 | 1:62:A:LYS:HE2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1840) | 1:57:A:MET:HE3 | 1:62:A:LYS:HE2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,3096) | 1:79:A:ILE:HG21 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,3096) | 1:79:A:ILE:HG22 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,3096) | 1:79:A:ILE:HG23 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HA | 5 | 0.13 | 0.02 | 0.14 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 5 | 0.13 | 0.03 | 0.11 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 5 | 0.13 | 0.01 | 0.13 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 5 | 0.13 | 0.01 | 0.13 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 5 | 0.13 | 0.01 | 0.13 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 5 | 0.13 | 0.02 | 0.12 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 5 | 0.13 | 0.02 | 0.12 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 5 | 0.13 | 0.02 | 0.12 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 5 | 0.12 | 0.02 | 0.11 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG11 | 4 | 0.43 | 0.16 | 0.42 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG12 | 4 | 0.43 | 0.16 | 0.42 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG13 | 4 | 0.43 | 0.16 | 0.42 |
| (1,3812) | 1:70:A:LYS:HA | 1:4:A:LYS:HD2 | 4 | 0.39 | 0.14 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,3812) | 1:12:A:GLY:HA3 | 1:4:A:LYS:HD2 | 4 | 0.39 | 0.14 | 0.44 |
| (1,2120) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HB2 | 4 | 0.3 | 0.06 | 0.32 |
| (1,2120) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HB2 | 4 | 0.3 | 0.06 | 0.32 |
| (1,2120) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HB2 | 4 | 0.3 | 0.06 | 0.32 |
| (1,2367) | 1:72:A:ARG:HA | 1:73:A:ILE:HG12 | 4 | 0.26 | 0.1 | 0.26 |
| (1,2367) | 1:2:A:SER:HA | 1:73:A:ILE:HG12 | 4 | 0.26 | 0.1 | 0.26 |
| (1,2287) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HG13 | 4 | 0.26 | 0.11 | 0.22 |
| (1,2287) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HG13 | 4 | 0.26 | 0.11 | 0.22 |
| (1,2287) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HG13 | 4 | 0.26 | 0.11 | 0.22 |
| (1,1115) | 1:55:A:LEU:HD21 | 1:8:A:ILE:H | 4 | 0.24 | 0.11 | 0.24 |
| (1,1115) | 1:55:A:LEU:HD22 | 1:8:A:ILE:H | 4 | 0.24 | 0.11 | 0.24 |
| (1,1115) | 1:55:A:LEU:HD23 | 1:8:A:ILE:H | 4 | 0.24 | 0.11 | 0.24 |
| (1,871) | 1:52:A:LEU:HG | 1:56:A:GLN:HE22 | 4 | 0.21 | 0.06 | 0.24 |
| (1,1843) | 1:24:A:SER:HB2 | 1:23:A:LYS:HE2 | 4 | 0.2 | 0.06 | 0.18 |
| (1,1843) | 1:24:A:SER:HB3 | 1:23:A:LYS:HE2 | 4 | 0.2 | 0.06 | 0.18 |
| (1,1843) | 1:57:A:MET:HA | 1:62:A:LYS:HE2 | 4 | 0.2 | 0.06 | 0.18 |
| (1,746) | 1:144:A:LEU:HG | 1:144:A:LEU:H | 4 | 0.19 | 0.03 | 0.2 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG12 | 4 | 0.18 | 0.08 | 0.14 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG13 | 4 | 0.18 | 0.08 | 0.14 |
| (1,2260) | 1:111:A:ALA:HA | 1:127:A:ILE:HG12 | 4 | 0.18 | 0.08 | 0.14 |
| (1,2260) | 1:111:A:ALA:HA | 1:127:A:ILE:HG13 | 4 | 0.18 | 0.08 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD21 | 1:143:A:GLN:H | 4 | 0.17 | 0.03 | 0.16 |
| (1,1140) | 1:144:A:LEU:HD22 | 1:143:A:GLN:H | 4 | 0.17 | 0.03 | 0.16 |
| (1,1140) | 1:144:A:LEU:HD23 | 1:143:A:GLN:H | 4 | 0.17 | 0.03 | 0.16 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD21 | 4 | 0.17 | 0.03 | 0.16 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD22 | 4 | 0.17 | 0.03 | 0.16 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD23 | 4 | 0.17 | 0.03 | 0.16 |
| (1,948) | 1:5:A:ILE:HG21 | 1:70:A:LYS:H | 4 | 0.16 | 0.01 | 0.16 |
| (1,948) | 1:5:A:ILE:HG22 | 1:70:A:LYS:H | 4 | 0.16 | 0.01 | 0.16 |
| (1,948) | 1:5:A:ILE:HG23 | 1:70:A:LYS:H | 4 | 0.16 | 0.01 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD21 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD22 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD23 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1651) | 1:60:A:LEU:HD11 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1651) | 1:60:A:LEU:HD12 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1651) | 1:60:A:LEU:HD13 | 1:56:A:GLN:HA | 4 | 0.15 | 0.02 | 0.16 |
| (1,1417) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HA | 4 | 0.14 | 0.01 | 0.14 |
| (1,753) | 1:129:A:LYS:HD2 | 1:128:A:GLU:H | 4 | 0.14 | 0.01 | 0.14 |
| (1,753) | 1:129:A:LYS:HD3 | 1:128:A:GLU:H | 4 | 0.14 | 0.01 | 0.14 |
| (1,753) | 1:124:A:ARG:HB2 | 1:128:A:GLU:H | 4 | 0.14 | 0.01 | 0.14 |
| (1,753) | 1:124:A:ARG:HB3 | 1:128:A:GLU:H | 4 | 0.14 | 0.01 | 0.14 |
| (1,1205) | 1:97:A:ILE:HD11 | 1:98:A:ASN:H | 4 | 0.13 | 0.02 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1205) | 1:97:A:ILE:HD12 | 1:98:A:ASN:H | 4 | 0.13 | 0.02 | 0.13 |
| (1,1205) | 1:97:A:ILE:HD13 | 1:98:A:ASN:H | 4 | 0.13 | 0.02 | 0.13 |
| (1,1226) | 1:68:A:ILE:HD11 | 1:58:A:TYR:H | 4 | 0.12 | 0.01 | 0.12 |
| (1,1226) | 1:68:A:ILE:HD12 | 1:58:A:TYR:H | 4 | 0.12 | 0.01 | 0.12 |
| (1,1226) | 1:68:A:ILE:HD13 | 1:58:A:TYR:H | 4 | 0.12 | 0.01 | 0.12 |
| (1,1097) | 1:108:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1097) | 1:108:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1097) | 1:108:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1097) | 1:103:A:LEU:HD21 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1097) | 1:103:A:LEU:HD22 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1097) | 1:103:A:LEU:HD23 | 1:112:A:ASP:H | 3 | 0.36 | 0.17 | 0.37 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD2 | 3 | 0.35 | 0.12 | 0.37 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD3 | 3 | 0.35 | 0.12 | 0.37 |
| (1,3431) | 1:4:A:LYS:HG3 | 1:71:A:ASN:HA | 3 | 0.31 | 0.13 | 0.25 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG2 | 3 | 0.27 | 0.09 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG3 | 3 | 0.27 | 0.09 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG2 | 3 | 0.27 | 0.09 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG3 | 3 | 0.27 | 0.09 | 0.26 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD11 | 3 | 0.27 | 0.05 | 0.28 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD12 | 3 | 0.27 | 0.05 | 0.28 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD13 | 3 | 0.27 | 0.05 | 0.28 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB1 | 3 | 0.24 | 0.09 | 0.22 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB2 | 3 | 0.24 | 0.09 | 0.22 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB3 | 3 | 0.24 | 0.09 | 0.22 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD11 | 3 | 0.23 | 0.1 | 0.17 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD12 | 3 | 0.23 | 0.1 | 0.17 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD13 | 3 | 0.23 | 0.1 | 0.17 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD11 | 3 | 0.23 | 0.03 | 0.24 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD12 | 3 | 0.23 | 0.03 | 0.24 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD13 | 3 | 0.23 | 0.03 | 0.24 |
| (1,1092) | 1:103:A:LEU:HD21 | 1:111:A:ALA:H | 3 | 0.22 | 0.08 | 0.26 |
| (1,1092) | 1:103:A:LEU:HD22 | 1:111:A:ALA:H | 3 | 0.22 | 0.08 | 0.26 |
| (1,1092) | 1:103:A:LEU:HD23 | 1:111:A:ALA:H | 3 | 0.22 | 0.08 | 0.26 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE2 | 3 | 0.21 | 0.02 | 0.2 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE3 | 3 | 0.21 | 0.02 | 0.2 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD21 | 3 | 0.2 | 0.02 | 0.21 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD22 | 3 | 0.2 | 0.02 | 0.21 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD23 | 3 | 0.2 | 0.02 | 0.21 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD21 | 3 | 0.2 | 0.02 | 0.21 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD22 | 3 | 0.2 | 0.02 | 0.21 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD23 | 3 | 0.2 | 0.02 | 0.21 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG21 | 3 | 0.2 | 0.1 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG22 | 3 | 0.2 | 0.1 | 0.14 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG23 | 3 | 0.2 | 0.1 | 0.14 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG21 | 3 | 0.2 | 0.1 | 0.14 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG22 | 3 | 0.2 | 0.1 | 0.14 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG23 | 3 | 0.2 | 0.1 | 0.14 |
| (1,2182) | 1:131:A:ILE:HD11 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,2182) | 1:131:A:ILE:HD12 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,2182) | 1:131:A:ILE:HD13 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG21 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG22 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG23 | 1:87:A:GLU:HG3 | 3 | 0.19 | 0.05 | 0.16 |
| (1,988) | 1:85:A:VAL:HG21 | 1:78:A:ASP:H | 3 | 0.18 | 0.03 | 0.17 |
| (1,988) | 1:85:A:VAL:HG22 | 1:78:A:ASP:H | 3 | 0.18 | 0.03 | 0.17 |
| (1,988) | 1:85:A:VAL:HG23 | 1:78:A:ASP:H | 3 | 0.18 | 0.03 | 0.17 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA2 | 3 | 0.17 | 0.05 | 0.18 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA3 | 3 | 0.17 | 0.05 | 0.18 |
| (1,2560) | 1:62:A:LYS:HE3 | 1:62:A:LYS:HG2 | 3 | 0.17 | 0.04 | 0.14 |
| (1,2560) | 1:62:A:LYS:HE2 | 1:62:A:LYS:HG2 | 3 | 0.17 | 0.04 | 0.14 |
| (1,1021) | 1:92:A:LEU:HD11 | 1:88:A:ASN:HD22 | 3 | 0.15 | 0.03 | 0.17 |
| (1,1021) | 1:92:A:LEU:HD12 | 1:88:A:ASN:HD22 | 3 | 0.15 | 0.03 | 0.17 |
| (1,1021) | 1:92:A:LEU:HD13 | 1:88:A:ASN:HD22 | 3 | 0.15 | 0.03 | 0.17 |
| (1,1288) | 1:121:A:GLN:HG2 | 1:122:A:THR:H | 3 | 0.14 | 0.01 | 0.13 |
| (1,1288) | 1:121:A:GLN:HG3 | 1:122:A:THR:H | 3 | 0.14 | 0.01 | 0.13 |
| (1,2278) | 1:50:A:ILE:HB | 1:54:A:ILE:HG12 | 3 | 0.14 | 0.02 | 0.14 |
| (1,2278) | 1:50:A:ILE:HB | 1:54:A:ILE:HG13 | 3 | 0.14 | 0.02 | 0.14 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG12 | 3 | 0.14 | 0.02 | 0.14 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG13 | 3 | 0.14 | 0.02 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB1 | 3 | 0.14 | 0.01 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB2 | 3 | 0.14 | 0.01 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB3 | 3 | 0.14 | 0.01 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE1 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE2 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE3 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE1 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE2 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE3 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE1 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE2 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE3 | 3 | 0.13 | 0.02 | 0.14 |
| (1,2400) | 1:94:A:CYS:HB3 | 1:124:A:ARG:HG2 | 3 | 0.12 | 0.01 | 0.13 |
| (1,3242) | 1:144:A:LEU:H | 1:144:A:LEU:HA | 3 | 0.12 | 0.02 | 0.12 |
| (1,977) | 1:132:A:THR:HG21 | 1:131:A:ILE:H | 3 | 0.12 | 0.01 | 0.11 |

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| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,977) | 1:132:A:THR:HG22 | 1:131:A:ILE:H | 3 | 0.12 | 0.01 | 0.11 |
| (1,977) | 1:132:A:THR:HG23 | 1:131:A:ILE:H | 3 | 0.12 | 0.01 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG21 | 3 | 0.12 | 0.01 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG22 | 3 | 0.12 | 0.01 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG23 | 3 | 0.12 | 0.01 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG21 | 3 | 0.12 | 0.0 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG22 | 3 | 0.12 | 0.0 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG23 | 3 | 0.12 | 0.0 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG21 | 3 | 0.12 | 0.0 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG22 | 3 | 0.12 | 0.0 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG23 | 3 | 0.12 | 0.0 | 0.12 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG21 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG22 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG23 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG21 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG22 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG23 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG21 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG22 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG23 | 2 | 0.54 | 0.03 | 0.54 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE2 | 2 | 0.38 | 0.22 | 0.38 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE3 | 2 | 0.38 | 0.22 | 0.38 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE2 | 2 | 0.38 | 0.22 | 0.38 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE3 | 2 | 0.38 | 0.22 | 0.38 |
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE2 | 2 | 0.38 | 0.22 | 0.38 |
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE3 | 2 | 0.38 | 0.22 | 0.38 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD2 | 2 | 0.34 | 0.05 | 0.34 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD3 | 2 | 0.34 | 0.05 | 0.34 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG21 | 2 | 0.32 | 0.04 | 0.32 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG22 | 2 | 0.32 | 0.04 | 0.32 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG23 | 2 | 0.32 | 0.04 | 0.32 |
| (1,2356) | 1:62:A:LYS:HA | 1:62:A:LYS:HD2 | 2 | 0.29 | 0.03 | 0.29 |
| (1,2356) | 1:62:A:LYS:HA | 1:62:A:LYS:HD3 | 2 | 0.29 | 0.03 | 0.29 |
| (1,500) | 1:83:A:GLY:HA2 | 1:82:A:ASN:HD22 | 2 | 0.26 | 0.01 | 0.26 |
| (1,500) | 1:8:A:ILE:HA | 1:35:A:GLN:H | 2 | 0.26 | 0.01 | 0.26 |
| (1,970) | 1:4:A:LYS:HB2 | 1:71:A:ASN:H | 2 | 0.26 | 0.12 | 0.26 |
| (1,970) | 1:70:A:LYS:HD3 | 1:71:A:ASN:H | 2 | 0.26 | 0.12 | 0.26 |
| (1,446) | 1:43:A:GLY:HA2 | 1:44:A:ASN:H | 2 | 0.24 | 0.08 | 0.24 |
| (1,774) | 1:72:A:ARG:HB2 | 1:3:A:VAL:H | 2 | 0.18 | 0.02 | 0.18 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD11 | 2 | 0.18 | 0.07 | 0.18 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD12 | 2 | 0.18 | 0.07 | 0.18 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD13 | 2 | 0.18 | 0.07 | 0.18 |

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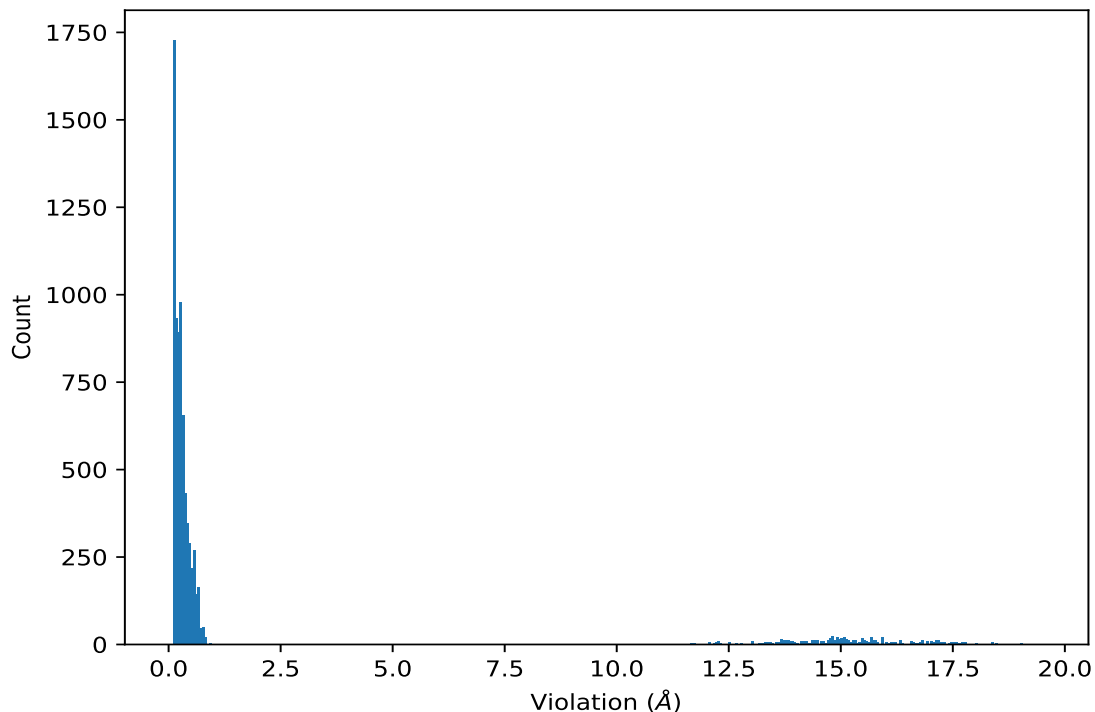
| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|------------------|------------------|---------------------|----------|---------------------|------------|
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD11 | 2 | 0.18 | 0.07 | 0.18 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD12 | 2 | 0.18 | 0.07 | 0.18 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD13 | 2 | 0.18 | 0.07 | 0.18 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD11 | 2 | 0.15 | 0.0 | 0.15 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD12 | 2 | 0.15 | 0.0 | 0.15 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD13 | 2 | 0.15 | 0.0 | 0.15 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG21 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG22 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG23 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1322) | 1:117:A:ASN:HA | 1:116:A:ASN:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,1322) | 1:112:A:ASP:HB3 | 1:116:A:ASN:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG21 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG22 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG23 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG21 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG22 | 2 | 0.14 | 0.03 | 0.14 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG23 | 2 | 0.14 | 0.03 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG21 | 1:41:A:VAL:HB | 2 | 0.14 | 0.01 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG22 | 1:41:A:VAL:HB | 2 | 0.14 | 0.01 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG23 | 1:41:A:VAL:HB | 2 | 0.14 | 0.01 | 0.14 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD11 | 2 | 0.12 | 0.01 | 0.12 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD12 | 2 | 0.12 | 0.01 | 0.12 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD13 | 2 | 0.12 | 0.01 | 0.12 |
| (1,798) | 1:13:A:GLU:HG2 | 1:13:A:GLU:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,798) | 1:13:A:GLU:HG3 | 1:13:A:GLU:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,3721) | 1:7:A:ASP:H | 1:4:A:LYS:HD2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,2337) | 1:84:A:ILE:H | 1:84:A:ILE:HG12 | 2 | 0.11 | 0.01 | 0.11 |
| (1,1801) | 1:144:A:LEU:H | 1:144:A:LEU:HB2 | 2 | 0.11 | 0.0 | 0.11 |

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 19.52 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 19.52 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 19.24 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 19.24 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 19.2 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 19.2 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 12 | 19.06 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 12 | 19.06 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 19.03 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 19.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 19.02 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 19.02 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 19 | 18.96 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 19 | 18.96 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 18.94 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 18.94 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 18.87 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 18.87 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 18.82 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 18.82 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 2 | 18.75 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 2 | 18.75 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 14 | 18.72 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 14 | 18.72 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 17 | 18.65 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 17 | 18.65 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 18.49 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 18.49 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 18.45 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 18.45 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 18.42 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 18.42 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 9 | 18.38 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 18.38 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 9 | 18.38 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 18.38 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 18.37 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 18.37 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 18.3 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 18.3 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 18.26 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 18.26 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 18.2 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 18.2 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 6 | 18.16 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 6 | 18.16 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 18.12 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 18.12 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 18.08 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 18.08 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 8 | 18.04 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 8 | 18.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 18.03 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 18.03 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 8 | 17.97 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 8 | 17.97 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 12 | 17.81 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 12 | 17.81 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 18 | 17.79 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 18 | 17.79 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 7 | 17.78 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 7 | 17.78 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 4 | 17.76 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 17.76 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 4 | 17.76 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 17.76 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 16 | 17.74 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 16 | 17.74 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 17.71 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 17.71 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 16 | 17.7 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 16 | 17.7 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 17.68 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 17.68 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 2 | 17.66 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 2 | 17.66 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 17.65 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 17.65 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 18 | 17.64 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 18 | 17.64 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 14 | 17.57 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 8 | 17.57 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 14 | 17.57 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 8 | 17.57 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 17.56 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 17.56 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 7 | 17.55 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 7 | 17.55 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 15 | 17.52 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 15 | 17.52 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 2 | 17.51 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 16 | 17.51 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 2 | 17.51 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 16 | 17.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 4 | 17.5 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 4 | 17.5 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 17.48 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 3 | 17.48 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 17 | 17.48 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 17.48 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 3 | 17.48 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 17 | 17.48 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 17.46 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 17.46 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 18 | 17.44 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 18 | 17.44 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 12 | 17.43 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 12 | 17.43 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 11 | 17.36 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 11 | 17.36 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 15 | 17.33 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 15 | 17.33 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 9 | 17.32 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 9 | 17.32 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 17.31 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 17.31 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 7 | 17.29 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 7 | 17.29 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 17.26 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 17.26 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 13 | 17.25 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 19 | 17.25 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 13 | 17.25 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 19 | 17.25 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 17.24 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 17.24 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 4 | 17.22 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 4 | 17.22 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 6 | 17.2 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 6 | 17.2 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 20 | 17.19 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 17.19 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 17.19 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 20 | 17.19 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 17.19 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 17.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 13 | 17.17 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 17 | 17.17 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 13 | 17.17 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 17 | 17.17 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 17.16 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 17.16 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 12 | 17.15 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 12 | 17.15 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 3 | 17.14 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 5 | 17.14 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 3 | 17.14 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 3 | 17.14 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 5 | 17.14 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 3 | 17.14 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 15 | 17.13 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 15 | 17.13 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 5 | 17.1 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 5 | 17.1 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 14 | 17.08 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 14 | 17.08 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 11 | 17.07 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 11 | 17.07 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 1 | 17.05 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 1 | 17.05 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 10 | 17.04 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 10 | 17.04 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 17.03 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 12 | 17.03 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 17.03 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 12 | 17.03 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 17.02 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 17.02 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 10 | 17.0 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 10 | 17.0 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 16.99 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 16.99 |
| (2,24) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 1 | 16.94 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 16.94 |
| (1,4007) | 1:123:A:ASP:OD2 | 1:4:A:LYS:CA | 1 | 16.94 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 16.94 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 16.93 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 16.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 9 | 16.92 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 9 | 16.92 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 11 | 16.91 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 11 | 16.91 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 19 | 16.85 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 19 | 16.85 |
| (2,23) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 16.84 |
| (2,22) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 20 | 16.84 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 16.84 |
| (1,4006) | 1:123:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 16.84 |
| (1,4005) | 1:118:A:VAL:O | 1:4:A:LYS:CA | 20 | 16.84 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 16.84 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 10 | 16.83 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 16.83 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 16.83 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 10 | 16.83 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 16.83 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 16.83 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 5 | 16.82 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 5 | 16.82 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 16.78 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 16.78 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 16.78 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 16.78 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 16.76 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 16.76 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 19 | 16.75 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 19 | 16.75 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 16.74 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 16.74 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 16.73 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 16.73 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 16.69 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 16.69 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 1 | 16.67 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 1 | 16.67 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 13 | 16.65 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 13 | 16.65 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 9 | 16.63 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 9 | 16.63 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 16.6 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 16.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 12 | 16.59 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 12 | 16.59 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 20 | 16.58 |
| (2,20) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 16.58 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 7 | 16.58 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 20 | 16.58 |
| (1,4003) | 1:114:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 16.58 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 7 | 16.58 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 15 | 16.56 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 15 | 16.56 |
| (2,21) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 6 | 16.51 |
| (1,4004) | 1:116:A:ASN:OD1 | 1:4:A:LYS:CA | 6 | 16.51 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 19 | 16.48 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 19 | 16.48 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 8 | 16.44 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 8 | 16.44 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 16.38 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 16.38 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 16.36 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 16.36 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 16.34 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 15 | 16.34 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 16.34 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 15 | 16.34 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 9 | 16.33 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 9 | 16.33 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 16.32 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 16.32 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 16.32 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 16.32 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 16.31 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 16.31 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 16.31 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 16.31 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 16.28 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 16.28 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 16.24 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 16.24 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 16.24 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 16.24 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 13 | 16.21 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 13 | 16.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 13 | 16.19 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 15 | 16.19 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 5 | 16.19 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 13 | 16.19 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 15 | 16.19 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 5 | 16.19 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 5 | 16.17 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 5 | 16.17 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 16.13 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 16.13 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 16.12 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 16.12 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 16.11 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 16.11 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 16.08 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 16.08 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 7 | 16.05 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 7 | 16.05 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 8 | 16.02 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 8 | 16.02 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 8 | 16.01 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 8 | 16.01 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 16.0 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 8 | 16.0 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 15.95 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 15.95 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 5 | 15.94 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 14 | 15.94 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 5 | 15.94 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 14 | 15.94 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 15.93 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 17 | 15.93 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 15.93 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 15.93 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 17 | 15.93 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 15.93 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 3 | 15.92 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 15 | 15.92 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 3 | 15.92 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 15 | 15.92 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 18 | 15.9 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 2 | 15.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 18 | 15.9 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 2 | 15.9 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 15.87 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 15.87 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 15.84 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 15.84 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 15.83 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 15.83 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 15.8 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 15.8 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 14 | 15.79 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 14 | 15.79 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 15.78 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 15.78 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 15.77 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 2 | 15.77 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 15.77 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 2 | 15.77 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 15.76 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 15.76 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 15.76 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 15.76 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 13 | 15.74 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 15.74 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 13 | 15.74 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 15.74 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 15.73 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 15.73 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 19 | 15.73 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 16 | 15.73 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 18 | 15.73 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 19 | 15.73 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 15.72 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 15.72 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 13 | 15.7 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 2 | 15.7 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 13 | 15.7 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 2 | 15.7 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 15.68 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 15.68 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 11 | 15.66 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 15.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 15.66 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 18 | 15.66 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 6 | 15.66 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 15.66 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 11 | 15.66 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 15.66 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 15.66 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 18 | 15.66 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 6 | 15.66 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 15.66 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 15.65 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 15.65 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 15.63 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 17 | 15.63 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 12 | 15.63 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 17 | 15.63 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 9 | 15.62 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 9 | 15.62 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 15.61 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 15.61 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 15.6 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 15.6 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 15.59 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 1 | 15.59 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 2 | 15.59 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 1 | 15.59 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 15.58 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 7 | 15.58 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 10 | 15.57 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 10 | 15.57 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 15.54 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 15.54 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 15.53 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 9 | 15.53 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 15.53 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 9 | 15.53 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 15.51 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 15.51 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 15.51 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 15.51 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 15.51 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 15.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 11 | 15.49 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 14 | 15.49 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 11 | 15.49 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 14 | 15.49 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 15.48 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 9 | 15.48 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 15 | 15.48 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 9 | 15.48 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 15.47 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 15.47 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 2 | 15.46 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 17 | 15.46 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 17 | 15.46 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 16 | 15.46 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 2 | 15.46 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 17 | 15.46 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 17 | 15.46 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 16 | 15.46 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 18 | 15.44 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 18 | 15.44 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 4 | 15.42 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 4 | 15.42 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 6 | 15.4 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 4 | 15.4 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 6 | 15.4 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 4 | 15.4 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 15.39 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 15.39 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 2 | 15.37 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 2 | 15.37 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 15.35 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 13 | 15.35 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 15.35 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 13 | 15.35 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.34 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 15.34 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 1 | 15.33 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 3 | 15.33 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 1 | 15.33 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 3 | 15.33 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 17 | 15.31 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 17 | 15.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 14 | 15.3 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 14 | 15.3 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 19 | 15.29 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 3 | 15.29 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 19 | 15.29 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 3 | 15.29 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 15.28 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 17 | 15.28 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 15 | 15.27 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 15 | 15.27 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 11 | 15.26 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 15.26 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 11 | 15.26 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 15.26 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 6 | 15.23 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 6 | 15.23 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 6 | 15.23 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 6 | 15.23 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 2 | 15.22 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 15.22 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 2 | 15.22 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 15.22 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 10 | 15.2 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 10 | 15.2 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 1 | 15.19 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 1 | 15.19 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 15.18 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 4 | 15.18 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 3 | 15.18 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 4 | 15.18 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 15.17 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 15.17 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.15 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.15 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 15.14 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 15.14 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 15.14 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 20 | 15.14 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 4 | 15.14 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 9 | 15.14 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 14 | 15.14 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 20 | 15.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 3 | 15.13 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 3 | 15.13 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 7 | 15.12 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 7 | 15.12 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 15.11 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 19 | 15.11 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 11 | 15.11 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 19 | 15.11 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 15.1 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.1 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 10 | 15.1 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 8 | 15.1 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 5 | 15.1 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 15.1 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 10 | 15.1 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 8 | 15.1 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 15.08 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 16 | 15.08 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 13 | 15.08 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 16 | 15.08 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 3 | 15.07 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 3 | 15.07 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 9 | 15.06 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 15.06 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 11 | 15.06 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 20 | 15.06 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 9 | 15.06 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 15.06 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 11 | 15.06 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 20 | 15.06 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 5 | 15.03 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 5 | 15.03 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 14 | 15.02 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 1 | 15.02 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 14 | 15.02 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 1 | 15.02 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 15.01 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 2 | 15.01 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 15.01 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 2 | 15.01 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 14 | 15.0 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 18 | 15.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 7 | 15.0 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 19 | 15.0 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 14 | 15.0 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 18 | 15.0 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 7 | 15.0 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 19 | 15.0 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 14.99 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 14.99 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 6 | 14.99 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 10 | 14.99 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 14.99 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 6 | 14.99 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 6 | 14.98 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 14.98 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 14.98 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 6 | 14.98 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 14.98 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 14.98 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 6 | 14.97 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 6 | 14.97 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 14.96 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 14.96 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 14.95 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 14.95 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 11 | 14.94 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 11 | 14.94 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 16 | 14.93 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 14.93 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 18 | 14.93 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 16 | 14.93 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 14.93 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 18 | 14.93 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 7 | 14.92 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 14.92 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 4 | 14.92 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 7 | 14.92 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 14.92 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 4 | 14.92 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 14.91 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 14.91 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 3 | 14.91 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 1 | 14.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 14.91 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 3 | 14.91 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 15 | 14.89 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 15 | 14.89 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 15 | 14.89 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 15 | 14.89 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 1 | 14.88 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 1 | 14.88 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 16 | 14.87 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 14.87 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 16 | 14.87 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 14.87 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 8 | 14.86 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 8 | 14.86 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 14.85 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 10 | 14.85 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 12 | 14.85 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 14.85 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 10 | 14.85 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 12 | 14.85 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.83 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 4 | 14.83 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 9 | 14.83 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 12 | 14.83 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 14.83 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 4 | 14.83 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 9 | 14.83 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 12 | 14.83 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 14.82 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 8 | 14.82 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 20 | 14.82 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 8 | 14.82 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 14.81 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 4 | 14.81 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 6 | 14.81 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 4 | 14.81 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 14.8 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 14.8 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 17 | 14.79 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 17 | 14.79 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 11 | 14.77 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 18 | 14.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|--------------|----------|---------------|
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 8 | 14.77 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 11 | 14.77 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 18 | 14.77 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 8 | 14.77 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 15 | 14.76 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 15 | 14.76 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 15 | 14.76 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 15 | 14.76 |
| (2,19) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 14.75 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 5 | 14.75 |
| (2,15) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 20 | 14.75 |
| (1,4002) | 1:112:A:ASP:OD1 | 1:4:A:LYS:CA | 19 | 14.75 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 5 | 14.75 |
| (1,3998) | 1:82:A:ASN:OD1 | 1:3:A:VAL:CA | 20 | 14.75 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 16 | 14.74 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 16 | 14.74 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 4 | 14.73 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 13 | 14.73 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 20 | 14.73 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 4 | 14.73 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 13 | 14.73 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 20 | 14.73 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 16 | 14.72 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 16 | 14.72 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 14.71 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 12 | 14.71 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 7 | 14.68 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 7 | 14.68 |
| (2,14) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 14.66 |
| (1,3997) | 1:80:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 14.66 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 12 | 14.64 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 12 | 14.64 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 14.63 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 14.63 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 13 | 14.62 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 14.62 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 1 | 14.62 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 13 | 14.62 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 14.62 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 1 | 14.62 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 6 | 14.6 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 16 | 14.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 6 | 14.6 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 16 | 14.6 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 5 | 14.57 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 5 | 14.57 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 5 | 14.57 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 5 | 14.57 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 12 | 14.56 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 12 | 14.56 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 9 | 14.53 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 9 | 14.53 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 14.49 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 14.49 |
| (2,16) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 20 | 14.48 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 14.48 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 14.48 |
| (1,3999) | 1:84:A:ILE:O | 1:3:A:VAL:CA | 20 | 14.48 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 14.48 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 14.48 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 18 | 14.47 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 18 | 14.47 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 4 | 14.46 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 4 | 14.46 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 14.45 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 14 | 14.45 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 19 | 14.45 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 14 | 14.45 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 3 | 14.44 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 8 | 14.44 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 12 | 14.44 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 13 | 14.44 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 3 | 14.44 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 8 | 14.44 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 12 | 14.44 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 13 | 14.44 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 5 | 14.4 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 5 | 14.4 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 2 | 14.39 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 2 | 14.39 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 6 | 14.38 |
| (2,17) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 14.38 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 6 | 14.38 |
| (1,4000) | 1:89:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 14.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 14.37 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 14.37 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 14.37 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 14.37 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 1 | 14.36 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 1 | 14.36 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 1 | 14.35 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 1 | 14.35 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 14.31 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 14.31 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 14.28 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 14.28 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 14.27 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 14.27 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 12 | 14.24 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 13 | 14.24 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 12 | 14.24 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 13 | 14.24 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 16 | 14.23 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 16 | 14.23 |
| (2,9) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 19 | 14.22 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 18 | 14.22 |
| (1,3992) | 1:44:A:ASN:OD1 | 1:2:A:SER:CA | 19 | 14.22 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 18 | 14.22 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 14.2 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 14.2 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 3 | 14.19 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 3 | 14.19 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 9 | 14.18 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 14.18 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 9 | 14.18 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 14.18 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 14.15 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 15 | 14.15 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 14.14 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 14.14 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 14.14 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 14.14 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 14.13 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 14.13 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 14.12 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 14.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 10 | 14.11 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 10 | 14.11 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 14.09 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 14.09 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 18 | 14.04 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 18 | 14.04 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 5 | 14.02 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 5 | 14.02 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 13.99 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 7 | 13.99 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 1 | 13.97 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 13.97 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 1 | 13.97 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 13.97 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 13.95 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 13.95 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 13.94 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 13.94 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 13.93 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 13.93 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 13.92 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 13.92 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 13.91 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 13.91 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 13.88 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 13.88 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 13.88 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 13.88 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 13.87 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 13.87 |
| (2,18) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 20 | 13.86 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 2 | 13.86 |
| (1,4001) | 1:89:A:ASP:OD2 | 1:3:A:VAL:CA | 20 | 13.86 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 2 | 13.86 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 17 | 13.85 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 17 | 13.85 |
| (2,10) | 1:46:A:TYR:O | 1:2:A:SER:CA | 19 | 13.84 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 17 | 13.84 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 17 | 13.84 |
| (1,3993) | 1:46:A:TYR:O | 1:2:A:SER:CA | 19 | 13.84 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 17 | 13.84 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 17 | 13.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 13.82 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 20 | 13.82 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 5 | 13.82 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 20 | 13.82 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 4 | 13.8 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 4 | 13.8 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 13.78 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 13 | 13.78 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 13.76 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 13.76 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 14 | 13.76 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 13.76 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 14 | 13.76 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 13.76 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 14 | 13.76 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 9 | 13.76 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 10 | 13.75 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 10 | 13.75 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 13.73 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 13.73 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 13.73 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 13.73 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 13.72 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 13.72 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 13.72 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 13.72 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 20 | 13.71 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 13.71 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 20 | 13.71 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 2 | 13.71 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 13.7 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 8 | 13.7 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 16 | 13.7 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 8 | 13.7 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 8 | 13.7 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 16 | 13.7 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 7 | 13.69 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 7 | 13.69 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 3 | 13.68 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 13.68 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 3 | 13.68 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 13.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 13.67 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 13.67 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 13.66 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 13.66 |
| (2,5) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 13.63 |
| (1,3988) | 1:18:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 13.63 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 13.62 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 18 | 13.62 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 14 | 13.61 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 14 | 13.61 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 13.6 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 13.6 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 13.58 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 13.58 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 20 | 13.56 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 20 | 13.56 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 13.55 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 13.55 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 13.51 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 13.51 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 13.48 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 13.48 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 13.47 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 17 | 13.47 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 13.45 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 13.45 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 13.44 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 7 | 13.44 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 13.44 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 7 | 13.44 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 7 | 13.41 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 7 | 13.41 |
| (2,12) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 19 | 13.38 |
| (1,3995) | 1:51:A:ASP:OD2 | 1:2:A:SER:CA | 19 | 13.38 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 13.36 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 11 | 13.36 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 13.36 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 11 | 13.36 |
| (2,8) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 13.35 |
| (1,3991) | 1:42:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 13.35 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 13.3 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 13.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 6 | 13.3 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 13.3 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 13.27 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 19 | 13.27 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 11 | 13.26 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 11 | 13.26 |
| (2,11) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 13.24 |
| (1,3994) | 1:51:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 13.24 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 13.23 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 4 | 13.23 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 13.19 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 2 | 13.19 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 11 | 13.17 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 11 | 13.17 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 13.11 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 11 | 13.11 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 13.07 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 10 | 13.07 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 13.04 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 1 | 13.04 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 13.03 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 3 | 13.03 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 13.02 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 13.02 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 13.02 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 9 | 13.02 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 6 | 13.02 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 16 | 13.02 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 12.82 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 3 | 12.82 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 12.78 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 16 | 12.78 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 12.75 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 5 | 12.75 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 12.72 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 8 | 12.72 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 12.66 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 12 | 12.66 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 12.65 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 15 | 12.65 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 12.63 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 2 | 12.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|--------------|----------|---------------|
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 12.53 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 12.53 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 3 | 12.53 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 14 | 12.53 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 12.52 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 1 | 12.52 |
| (2,13) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 12.46 |
| (1,3996) | 1:78:A:ASP:OD1 | 1:3:A:VAL:CA | 20 | 12.46 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 12.4 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 20 | 12.4 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 12.35 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 10 | 12.35 |
| (2,6) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 10 | 12.32 |
| (1,3989) | 1:18:A:ASP:OD2 | 1:1:A:MET:CA | 10 | 12.32 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 12.29 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 12.29 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 8 | 12.29 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 18 | 12.29 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 12.27 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 11 | 12.27 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 12.26 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 18 | 12.26 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 12.25 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 15 | 12.25 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 12.24 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 12.24 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 9 | 12.24 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 13 | 12.24 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 12.22 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 13 | 12.22 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 12.19 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 4 | 12.19 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 12.17 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 16 | 12.17 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 12.12 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 6 | 12.12 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 12.1 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 12.1 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 7 | 12.1 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 4 | 12.1 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 12.07 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 5 | 12.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 12.02 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 14 | 12.02 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 11.92 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 12 | 11.92 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 11.88 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 17 | 11.88 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 11.8 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 17 | 11.8 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 11.77 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 19 | 11.77 |
| (2,2) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 11.73 |
| (1,3985) | 1:9:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 11.73 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 11.72 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 20 | 11.72 |
| (2,7) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 11.7 |
| (1,3990) | 1:40:A:ASP:OD1 | 1:2:A:SER:CA | 1 | 11.7 |
| (2,4) | 1:13:A:GLU:O | 1:1:A:MET:CA | 10 | 11.65 |
| (1,3987) | 1:13:A:GLU:O | 1:1:A:MET:CA | 10 | 11.65 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 11.52 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 7 | 11.52 |
| (2,3) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 10 | 11.4 |
| (1,3986) | 1:11:A:ASN:OD1 | 1:1:A:MET:CA | 10 | 11.4 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 11.24 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 11 | 11.24 |
| (2,1) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 9.74 |
| (1,3984) | 1:7:A:ASP:OD1 | 1:1:A:MET:CA | 10 | 9.74 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 9 | 0.97 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 7 | 0.92 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 17 | 0.9 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 17 | 0.9 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 17 | 0.9 |
| (1,3890) | 1:73:A:ILE:H | 1:2:A:SER:HB2 | 16 | 0.87 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 6 | 0.85 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 6 | 0.85 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 7 | 0.83 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 7 | 0.83 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 7 | 0.83 |
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG21 | 1 | 0.83 |
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG22 | 1 | 0.83 |
| (1,2942) | 1:90:A:TYR:HB3 | 1:131:A:ILE:HG23 | 1 | 0.83 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 18 | 0.83 |
| (1,1150) | 1:134:A:ARG:HB3 | 1:129:A:LYS:H | 15 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 4 | 0.83 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD11 | 1 | 0.82 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD12 | 1 | 0.82 |
| (1,1505) | 1:2:A:SER:HA | 1:73:A:ILE:HD13 | 1 | 0.82 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 19 | 0.81 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 17 | 0.81 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 19 | 0.81 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 3 | 0.81 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 19 | 0.81 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 19 | 0.81 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 19 | 0.81 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 2 | 0.79 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 2 | 0.79 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 2 | 0.79 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 8 | 0.79 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 1 | 0.78 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 1 | 0.78 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 1 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 7 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 7 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 7 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 7 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 7 | 0.78 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 7 | 0.78 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 16 | 0.77 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 16 | 0.77 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 16 | 0.77 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 8 | 0.77 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 8 | 0.77 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 5 | 0.77 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 13 | 0.76 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 13 | 0.76 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 13 | 0.76 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 2 | 0.76 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 2 | 0.76 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 2 | 0.76 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 11 | 0.76 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 14 | 0.76 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 5 | 0.76 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 5 | 0.76 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 5 | 0.76 |
| (1,1032) | 1:79:A:ILE:HD11 | 1:112:A:ASP:H | 7 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1032) | 1:79:A:ILE:HD12 | 1:112:A:ASP:H | 7 | 0.76 |
| (1,1032) | 1:79:A:ILE:HD13 | 1:112:A:ASP:H | 7 | 0.76 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 14 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 14 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 14 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 20 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 20 | 0.75 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 20 | 0.75 |
| (1,2306) | 1:73:A:ILE:H | 1:5:A:ILE:HG13 | 1 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 12 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 12 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 12 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 13 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 13 | 0.75 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 13 | 0.75 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 1 | 0.75 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 1 | 0.75 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 1 | 0.75 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 18 | 0.75 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 12 | 0.74 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 12 | 0.74 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 12 | 0.74 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 8 | 0.74 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 15 | 0.74 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 14 | 0.73 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 14 | 0.73 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 14 | 0.73 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 15 | 0.73 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 15 | 0.73 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 15 | 0.73 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 16 | 0.73 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 16 | 0.73 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 7 | 0.72 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 7 | 0.72 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD11 | 10 | 0.72 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD12 | 10 | 0.72 |
| (1,3596) | 1:38:A:ALA:HA | 1:14:A:ILE:HD13 | 10 | 0.72 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 2 | 0.72 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 2 | 0.72 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 2 | 0.72 |
| (1,2523) | 1:137:A:HIS:HB3 | 1:135:A:ILE:HG13 | 16 | 0.72 |
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 11 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 11 | 0.72 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 20 | 0.72 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 20 | 0.72 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 20 | 0.72 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 3 | 0.72 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 3 | 0.72 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 3 | 0.72 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 12 | 0.71 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 12 | 0.71 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 12 | 0.71 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 17 | 0.71 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 17 | 0.71 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 17 | 0.71 |
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 7 | 0.71 |
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 7 | 0.71 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 15 | 0.71 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 10 | 0.71 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 10 | 0.71 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 10 | 0.71 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 8 | 0.71 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 8 | 0.71 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 8 | 0.71 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 20 | 0.71 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 20 | 0.71 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 20 | 0.71 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 19 | 0.7 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 19 | 0.7 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 19 | 0.7 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 10 | 0.7 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 10 | 0.7 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 10 | 0.7 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 8 | 0.7 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 8 | 0.7 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 8 | 0.7 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 9 | 0.7 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 9 | 0.7 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 9 | 0.7 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG21 | 1 | 0.7 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG22 | 1 | 0.7 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG23 | 1 | 0.7 |
| (1,2523) | 1:137:A:HIS:HB3 | 1:135:A:ILE:HG13 | 18 | 0.7 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 2 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 14 | 0.7 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 14 | 0.7 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 14 | 0.7 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 18 | 0.7 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 18 | 0.7 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 18 | 0.7 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 3 | 0.7 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 3 | 0.7 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 3 | 0.7 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 4 | 0.7 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 4 | 0.7 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 4 | 0.7 |
| (1,1032) | 1:79:A:ILE:HD11 | 1:112:A:ASP:H | 2 | 0.7 |
| (1,1032) | 1:79:A:ILE:HD12 | 1:112:A:ASP:H | 2 | 0.7 |
| (1,1032) | 1:79:A:ILE:HD13 | 1:112:A:ASP:H | 2 | 0.7 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 17 | 0.7 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 19 | 0.7 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 3 | 0.69 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 3 | 0.69 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 3 | 0.69 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 20 | 0.69 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 20 | 0.69 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 20 | 0.69 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 9 | 0.69 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 9 | 0.69 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 9 | 0.69 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 18 | 0.69 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 18 | 0.69 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 13 | 0.69 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 13 | 0.69 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 13 | 0.69 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 1 | 0.69 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 18 | 0.68 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 18 | 0.68 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 1 | 0.68 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 1 | 0.68 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 1 | 0.68 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 8 | 0.68 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 8 | 0.68 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 8 | 0.68 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 14 | 0.68 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 14 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 14 | 0.68 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG21 | 19 | 0.68 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG22 | 19 | 0.68 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG23 | 19 | 0.68 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 9 | 0.68 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 15 | 0.68 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 15 | 0.68 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 15 | 0.68 |
| (1,1067) | 1:60:A:LEU:HD21 | 1:63:A:GLY:H | 7 | 0.68 |
| (1,1067) | 1:60:A:LEU:HD22 | 1:63:A:GLY:H | 7 | 0.68 |
| (1,1067) | 1:60:A:LEU:HD23 | 1:63:A:GLY:H | 7 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 14 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 14 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 14 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 16 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 16 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 16 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 18 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 18 | 0.68 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 18 | 0.68 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 14 | 0.68 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 14 | 0.68 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 14 | 0.68 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 17 | 0.68 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 17 | 0.68 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 17 | 0.68 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 1 | 0.68 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 2 | 0.67 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 2 | 0.67 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 2 | 0.67 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 11 | 0.67 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 11 | 0.67 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 11 | 0.67 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 12 | 0.67 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 12 | 0.67 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 12 | 0.67 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 9 | 0.67 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 9 | 0.67 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 9 | 0.67 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 10 | 0.67 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 10 | 0.67 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 10 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 9 | 0.67 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 11 | 0.67 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 2 | 0.67 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 13 | 0.66 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 13 | 0.66 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 13 | 0.66 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 4 | 0.66 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 4 | 0.66 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 4 | 0.66 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 6 | 0.66 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 6 | 0.66 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 6 | 0.66 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 6 | 0.66 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 6 | 0.66 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 6 | 0.66 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 11 | 0.66 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 11 | 0.66 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 16 | 0.66 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 16 | 0.66 |
| (1,1238) | 1:21:A:ILE:HD11 | 1:20:A:ALA:H | 15 | 0.66 |
| (1,1238) | 1:21:A:ILE:HD12 | 1:20:A:ALA:H | 15 | 0.66 |
| (1,1238) | 1:21:A:ILE:HD13 | 1:20:A:ALA:H | 15 | 0.66 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 3 | 0.66 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 3 | 0.66 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 1 | 0.66 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 1 | 0.66 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 1 | 0.66 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 2 | 0.66 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 2 | 0.66 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 2 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 8 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 8 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 8 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 11 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 11 | 0.66 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 11 | 0.66 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 13 | 0.65 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 13 | 0.65 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 13 | 0.65 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 7 | 0.65 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 17 | 0.65 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 17 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 17 | 0.65 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 20 | 0.65 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 20 | 0.65 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 20 | 0.65 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 14 | 0.65 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 14 | 0.65 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 19 | 0.65 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 19 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 12 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 12 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 12 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 20 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 20 | 0.65 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 20 | 0.65 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 3 | 0.65 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 3 | 0.65 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 3 | 0.65 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 15 | 0.65 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 15 | 0.65 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 9 | 0.65 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 4 | 0.64 |
| (1,3760) | 1:35:A:GLN:H | 1:31:A:LEU:HD11 | 8 | 0.64 |
| (1,3760) | 1:35:A:GLN:H | 1:31:A:LEU:HD12 | 8 | 0.64 |
| (1,3760) | 1:35:A:GLN:H | 1:31:A:LEU:HD13 | 8 | 0.64 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 1 | 0.64 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 1 | 0.64 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 1 | 0.64 |
| (1,3019) | 1:54:A:ILE:HA | 1:65:A:THR:HB | 5 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 7 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 7 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 7 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 12 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 12 | 0.64 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 12 | 0.64 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG21 | 13 | 0.64 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG22 | 13 | 0.64 |
| (1,2697) | 1:135:A:ILE:HB | 1:136:A:THR:HG23 | 13 | 0.64 |
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 3 | 0.64 |
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 3 | 0.64 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 8 | 0.64 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 8 | 0.64 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 8 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 3 | 0.64 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 3 | 0.64 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 20 | 0.64 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 20 | 0.64 |
| (1,1067) | 1:60:A:LEU:HD21 | 1:63:A:GLY:H | 2 | 0.64 |
| (1,1067) | 1:60:A:LEU:HD22 | 1:63:A:GLY:H | 2 | 0.64 |
| (1,1067) | 1:60:A:LEU:HD23 | 1:63:A:GLY:H | 2 | 0.64 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 17 | 0.64 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 17 | 0.64 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 17 | 0.64 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 8 | 0.64 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 14 | 0.64 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 16 | 0.64 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 19 | 0.63 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 19 | 0.63 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 19 | 0.63 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 19 | 0.63 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 19 | 0.63 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 19 | 0.63 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 11 | 0.63 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 11 | 0.63 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 11 | 0.63 |
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 19 | 0.63 |
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 19 | 0.63 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 6 | 0.63 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 6 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 11 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 11 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 11 | 0.63 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 13 | 0.63 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 13 | 0.63 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 13 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 16 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 16 | 0.63 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 16 | 0.63 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 11 | 0.63 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 11 | 0.63 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 11 | 0.63 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 15 | 0.63 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 15 | 0.63 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 15 | 0.63 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 18 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 7 | 0.62 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 7 | 0.62 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 7 | 0.62 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 10 | 0.62 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 10 | 0.62 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 10 | 0.62 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 18 | 0.62 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 18 | 0.62 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 18 | 0.62 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 4 | 0.62 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 4 | 0.62 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 4 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 10 | 0.62 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 10 | 0.62 |
| (1,2523) | 1:137:A:HIS:HB3 | 1:135:A:ILE:HG13 | 17 | 0.62 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 2 | 0.62 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 2 | 0.62 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 3 | 0.62 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 3 | 0.62 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 3 | 0.62 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 18 | 0.62 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 18 | 0.62 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 18 | 0.62 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 3 | 0.62 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 3 | 0.62 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 3 | 0.62 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 17 | 0.62 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 17 | 0.62 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 17 | 0.62 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 10 | 0.62 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE2 | 10 | 0.61 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE3 | 10 | 0.61 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE2 | 10 | 0.61 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE3 | 10 | 0.61 |
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE2 | 10 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE3 | 10 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 11 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 11 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 11 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 17 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 17 | 0.61 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 17 | 0.61 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 7 | 0.61 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 7 | 0.61 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 7 | 0.61 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 11 | 0.61 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 11 | 0.61 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 11 | 0.61 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG11 | 3 | 0.61 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG12 | 3 | 0.61 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG13 | 3 | 0.61 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 8 | 0.61 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 8 | 0.61 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 8 | 0.61 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 12 | 0.61 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 18 | 0.61 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 18 | 0.61 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 4 | 0.61 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 4 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 2 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 2 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 2 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 17 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 17 | 0.61 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 17 | 0.61 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 11 | 0.61 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 11 | 0.61 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 11 | 0.61 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 12 | 0.61 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 12 | 0.61 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 12 | 0.61 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 7 | 0.61 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 7 | 0.61 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 2 | 0.6 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 2 | 0.6 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 2 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 14 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 14 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 14 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 17 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 17 | 0.6 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 17 | 0.6 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 11 | 0.6 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 11 | 0.6 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 11 | 0.6 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 4 | 0.6 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 4 | 0.6 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 4 | 0.6 |
| (1,2145) | 1:2:A:SER:HB2 | 1:3:A:VAL:HB | 2 | 0.6 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 5 | 0.6 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 5 | 0.6 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 3 | 0.6 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 3 | 0.6 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 3 | 0.6 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 4 | 0.6 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 4 | 0.6 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 4 | 0.6 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 6 | 0.6 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 6 | 0.6 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 6 | 0.6 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 19 | 0.6 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 19 | 0.6 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 19 | 0.6 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 12 | 0.6 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 20 | 0.6 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 14 | 0.6 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 20 | 0.59 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 20 | 0.59 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 20 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 4 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 4 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 4 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 5 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 5 | 0.59 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 5 | 0.59 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG21 | 18 | 0.59 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG22 | 18 | 0.59 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG23 | 18 | 0.59 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG21 | 2 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG22 | 2 | 0.59 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG23 | 2 | 0.59 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 2 | 0.59 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 2 | 0.59 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 2 | 0.59 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 14 | 0.59 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 14 | 0.59 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 14 | 0.59 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 19 | 0.59 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 19 | 0.59 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 19 | 0.59 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 4 | 0.59 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 4 | 0.59 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 4 | 0.59 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 3 | 0.59 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 5 | 0.58 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 5 | 0.58 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 5 | 0.58 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 16 | 0.58 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 16 | 0.58 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 16 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 3 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 3 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 3 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 6 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 6 | 0.58 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 6 | 0.58 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 20 | 0.58 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 20 | 0.58 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 20 | 0.58 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 6 | 0.58 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 6 | 0.58 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 6 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 2 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 2 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 2 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 2 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 2 | 0.58 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 2 | 0.58 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG21 | 9 | 0.58 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG22 | 9 | 0.58 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG23 | 9 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG21 | 15 | 0.58 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG22 | 15 | 0.58 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG23 | 15 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD11 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD12 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD13 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD11 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD12 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD13 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD11 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD12 | 6 | 0.58 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD13 | 6 | 0.58 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 6 | 0.58 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 6 | 0.58 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE2 | 1 | 0.58 |
| (1,1784) | 1:130:A:TYR:H | 1:129:A:LYS:HE3 | 1 | 0.58 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 17 | 0.58 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 17 | 0.58 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 8 | 0.58 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 8 | 0.58 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 8 | 0.58 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 18 | 0.58 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 18 | 0.58 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 18 | 0.58 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 6 | 0.57 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 6 | 0.57 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 14 | 0.57 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 14 | 0.57 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 14 | 0.57 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 14 | 0.57 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 14 | 0.57 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 14 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 6 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 6 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 6 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 7 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 7 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 7 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 9 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 9 | 0.57 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 9 | 0.57 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 9 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 9 | 0.57 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 9 | 0.57 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 20 | 0.57 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 20 | 0.57 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 20 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG21 | 10 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG22 | 10 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA2 | 1:65:A:THR:HG23 | 10 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG21 | 10 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG22 | 10 | 0.57 |
| (1,3045) | 1:64:A:GLY:HA3 | 1:65:A:THR:HG23 | 10 | 0.57 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG21 | 14 | 0.57 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG22 | 14 | 0.57 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG23 | 14 | 0.57 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 19 | 0.57 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 19 | 0.57 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 19 | 0.57 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 13 | 0.57 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 13 | 0.57 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 13 | 0.57 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 13 | 0.57 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 13 | 0.57 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 13 | 0.57 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 10 | 0.57 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 10 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 7 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 7 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 7 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 9 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 9 | 0.57 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 9 | 0.57 |
| (1,1097) | 1:103:A:LEU:HD21 | 1:112:A:ASP:H | 4 | 0.57 |
| (1,1097) | 1:103:A:LEU:HD22 | 1:112:A:ASP:H | 4 | 0.57 |
| (1,1097) | 1:103:A:LEU:HD23 | 1:112:A:ASP:H | 4 | 0.57 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 8 | 0.56 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 18 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 11 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 11 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 11 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 16 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 16 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 16 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 1 | 0.56 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 3 | 0.56 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 3 | 0.56 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 3 | 0.56 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD11 | 5 | 0.56 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD12 | 5 | 0.56 |
| (1,3386) | 1:18:A:ASP:HA | 1:31:A:LEU:HD13 | 5 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 6 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 6 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 6 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 19 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 19 | 0.56 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 19 | 0.56 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 10 | 0.56 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 10 | 0.56 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 10 | 0.56 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG11 | 1 | 0.56 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG12 | 1 | 0.56 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG13 | 1 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 12 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 12 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 12 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 12 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 12 | 0.56 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 12 | 0.56 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 14 | 0.56 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 14 | 0.56 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 14 | 0.56 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 9 | 0.56 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 9 | 0.56 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 17 | 0.56 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 17 | 0.56 |
| (1,1238) | 1:21:A:ILE:HD11 | 1:20:A:ALA:H | 5 | 0.56 |
| (1,1238) | 1:21:A:ILE:HD12 | 1:20:A:ALA:H | 5 | 0.56 |
| (1,1238) | 1:21:A:ILE:HD13 | 1:20:A:ALA:H | 5 | 0.56 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 6 | 0.56 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 6 | 0.56 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 6 | 0.56 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 17 | 0.56 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 17 | 0.56 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 17 | 0.56 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 6 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 6 | 0.56 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 20 | 0.56 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 12 | 0.55 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 12 | 0.55 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 12 | 0.55 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 18 | 0.55 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 18 | 0.55 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 18 | 0.55 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 10 | 0.55 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 10 | 0.55 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 10 | 0.55 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 1 | 0.55 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 1 | 0.55 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 1 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 11 | 0.55 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 11 | 0.55 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 1 | 0.55 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 1 | 0.55 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 1 | 0.55 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 2 | 0.55 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 2 | 0.55 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 2 | 0.55 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD21 | 8 | 0.55 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD22 | 8 | 0.55 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:52:A:LEU:HD23 | 8 | 0.55 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 10 | 0.55 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 20 | 0.55 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 19 | 0.55 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 19 | 0.55 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 14 | 0.55 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 14 | 0.55 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 14 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 4 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 4 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 4 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1067) | 1:60:A:LEU:HD21 | 1:63:A:GLY:H | 5 | 0.55 |
| (1,1067) | 1:60:A:LEU:HD22 | 1:63:A:GLY:H | 5 | 0.55 |
| (1,1067) | 1:60:A:LEU:HD23 | 1:63:A:GLY:H | 5 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 12 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 12 | 0.55 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 12 | 0.55 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 2 | 0.55 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 16 | 0.55 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 13 | 0.55 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 17 | 0.55 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 17 | 0.55 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 18 | 0.55 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 18 | 0.55 |
| (1,3890) | 1:73:A:ILE:H | 1:2:A:SER:HB2 | 1 | 0.54 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 15 | 0.54 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 15 | 0.54 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 15 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 20 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 20 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 20 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 20 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 20 | 0.54 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 20 | 0.54 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 1 | 0.54 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 1 | 0.54 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 1 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 8 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 8 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 8 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 8 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 8 | 0.54 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 8 | 0.54 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 6 | 0.54 |
| (1,1813) | 1:19:A:TYR:HD1 | 1:23:A:LYS:HE2 | 20 | 0.54 |
| (1,1813) | 1:19:A:TYR:HD2 | 1:23:A:LYS:HE2 | 20 | 0.54 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 20 | 0.54 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 20 | 0.54 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 18 | 0.54 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 18 | 0.54 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 18 | 0.54 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 5 | 0.54 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 5 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 5 | 0.54 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 15 | 0.54 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 15 | 0.54 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 15 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 7 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 7 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 7 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 9 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 9 | 0.54 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 9 | 0.54 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 6 | 0.54 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 6 | 0.54 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 6 | 0.54 |
| (1,929) | 1:3:A:VAL:HG11 | 1:34:A:LYS:H | 10 | 0.54 |
| (1,929) | 1:3:A:VAL:HG12 | 1:34:A:LYS:H | 10 | 0.54 |
| (1,929) | 1:3:A:VAL:HG13 | 1:34:A:LYS:H | 10 | 0.54 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 13 | 0.54 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 17 | 0.54 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 17 | 0.54 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 18 | 0.54 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 18 | 0.54 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 5 | 0.53 |
| (1,3812) | 1:12:A:GLY:HA3 | 1:4:A:LYS:HD2 | 20 | 0.53 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 13 | 0.53 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 13 | 0.53 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 13 | 0.53 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 10 | 0.53 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 17 | 0.53 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 12 | 0.53 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 12 | 0.53 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 12 | 0.53 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 16 | 0.53 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 16 | 0.53 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 16 | 0.53 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 14 | 0.53 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 14 | 0.53 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 14 | 0.53 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 13 | 0.53 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 13 | 0.53 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 13 | 0.53 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 20 | 0.53 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 20 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 20 | 0.53 |
| (1,2522) | 1:139:A:PRO:HD2 | 1:135:A:ILE:HG13 | 15 | 0.53 |
| (1,2522) | 1:139:A:PRO:HD3 | 1:135:A:ILE:HG13 | 15 | 0.53 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 12 | 0.53 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 12 | 0.53 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 12 | 0.53 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 4 | 0.53 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 4 | 0.53 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 4 | 0.53 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 12 | 0.53 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 12 | 0.53 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 1 | 0.53 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 19 | 0.53 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 19 | 0.53 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 19 | 0.53 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 18 | 0.53 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 7 | 0.52 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 6 | 0.52 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 12 | 0.52 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 12 | 0.52 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 12 | 0.52 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 13 | 0.52 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 13 | 0.52 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 13 | 0.52 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 16 | 0.52 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 16 | 0.52 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 16 | 0.52 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 15 | 0.52 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 15 | 0.52 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 15 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 10 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 10 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 10 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 17 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 17 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 17 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 18 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 18 | 0.52 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 18 | 0.52 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 14 | 0.52 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 17 | 0.52 |
| (1,1238) | 1:21:A:ILE:HD11 | 1:20:A:ALA:H | 8 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1238) | 1:21:A:ILE:HD12 | 1:20:A:ALA:H | 8 | 0.52 |
| (1,1238) | 1:21:A:ILE:HD13 | 1:20:A:ALA:H | 8 | 0.52 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 9 | 0.52 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 9 | 0.52 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 9 | 0.52 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 18 | 0.52 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 18 | 0.52 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 18 | 0.52 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 20 | 0.52 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 20 | 0.52 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 20 | 0.52 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 19 | 0.52 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 19 | 0.52 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 19 | 0.52 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 2 | 0.52 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 2 | 0.52 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 2 | 0.52 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 7 | 0.52 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 7 | 0.52 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 7 | 0.52 |
| (1,883) | 1:59:A:LEU:HB3 | 1:61:A:GLY:H | 10 | 0.52 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 4 | 0.52 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 12 | 0.52 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 12 | 0.52 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 15 | 0.51 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 15 | 0.51 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 15 | 0.51 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 5 | 0.51 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 11 | 0.51 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 20 | 0.51 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 20 | 0.51 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 20 | 0.51 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 8 | 0.51 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 16 | 0.51 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 16 | 0.51 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 16 | 0.51 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG21 | 16 | 0.51 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG22 | 16 | 0.51 |
| (1,3045) | 1:133:A:GLY:HA2 | 1:136:A:THR:HG23 | 16 | 0.51 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 19 | 0.51 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 19 | 0.51 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 19 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 13 | 0.51 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 13 | 0.51 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 13 | 0.51 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 20 | 0.51 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 20 | 0.51 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 15 | 0.51 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 15 | 0.51 |
| (1,1813) | 1:19:A:TYR:HD1 | 1:23:A:LYS:HE2 | 16 | 0.51 |
| (1,1813) | 1:19:A:TYR:HD2 | 1:23:A:LYS:HE2 | 16 | 0.51 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 18 | 0.51 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 16 | 0.51 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 16 | 0.51 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 16 | 0.51 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 16 | 0.51 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 16 | 0.51 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 16 | 0.51 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 5 | 0.51 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 2 | 0.51 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 2 | 0.51 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 20 | 0.51 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 20 | 0.51 |
| (1,3812) | 1:12:A:GLY:HA3 | 1:4:A:LYS:HD2 | 4 | 0.5 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 8 | 0.5 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 8 | 0.5 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 8 | 0.5 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 8 | 0.5 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 20 | 0.5 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 7 | 0.5 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 7 | 0.5 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 9 | 0.5 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 18 | 0.5 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 18 | 0.5 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 18 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG21 | 9 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG22 | 9 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG23 | 9 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 15 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 15 | 0.5 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 15 | 0.5 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 5 | 0.5 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 5 | 0.5 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 5 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 1 | 0.5 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 1 | 0.5 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 1 | 0.5 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 19 | 0.5 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 19 | 0.5 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 19 | 0.5 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 4 | 0.5 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 7 | 0.5 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 7 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 4 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 4 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 4 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 17 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 17 | 0.5 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 17 | 0.5 |
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 10 | 0.5 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 12 | 0.5 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 12 | 0.5 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 12 | 0.5 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 15 | 0.5 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 15 | 0.5 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 15 | 0.5 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 12 | 0.49 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 10 | 0.49 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 3 | 0.49 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 3 | 0.49 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 3 | 0.49 |
| (1,3431) | 1:4:A:LYS:HG3 | 1:71:A:ASN:HA | 5 | 0.49 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 18 | 0.49 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 18 | 0.49 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 18 | 0.49 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 11 | 0.49 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 11 | 0.49 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 11 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD11 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD12 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB1 | 1:36:A:LEU:HD13 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD11 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD12 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB2 | 1:36:A:LEU:HD13 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD11 | 12 | 0.49 |
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD12 | 12 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2586) | 1:106:A:ALA:HB3 | 1:36:A:LEU:HD13 | 12 | 0.49 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 12 | 0.49 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 12 | 0.49 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 12 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 1 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 1 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 1 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 14 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 14 | 0.49 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 14 | 0.49 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 13 | 0.49 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 13 | 0.49 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD2 | 17 | 0.49 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD3 | 17 | 0.49 |
| (1,1238) | 1:17:A:ILE:HD11 | 1:20:A:ALA:H | 19 | 0.49 |
| (1,1238) | 1:17:A:ILE:HD12 | 1:20:A:ALA:H | 19 | 0.49 |
| (1,1238) | 1:17:A:ILE:HD13 | 1:20:A:ALA:H | 19 | 0.49 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 2 | 0.49 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 14 | 0.49 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 14 | 0.49 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 14 | 0.49 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 18 | 0.49 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 18 | 0.49 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 18 | 0.49 |
| (1,1032) | 1:93:A:ILE:HD11 | 1:112:A:ASP:H | 9 | 0.49 |
| (1,1032) | 1:93:A:ILE:HD12 | 1:112:A:ASP:H | 9 | 0.49 |
| (1,1032) | 1:93:A:ILE:HD13 | 1:112:A:ASP:H | 9 | 0.49 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD21 | 18 | 0.48 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD22 | 18 | 0.48 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD23 | 18 | 0.48 |
| (1,3696) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG3 | 18 | 0.48 |
| (1,3696) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG3 | 18 | 0.48 |
| (1,3696) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG3 | 18 | 0.48 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 2 | 0.48 |
| (1,3635) | 1:112:A:ASP:HB2 | 1:113:A:ALA:HA | 7 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 1 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 1 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 1 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 15 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 15 | 0.48 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 15 | 0.48 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG21 | 18 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG22 | 18 | 0.48 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG23 | 18 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 5 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 5 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 5 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD21 | 16 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD22 | 16 | 0.48 |
| (1,2522) | 1:23:A:LYS:HA | 1:22:A:LEU:HD23 | 16 | 0.48 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 6 | 0.48 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 6 | 0.48 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 6 | 0.48 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 2 | 0.48 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 2 | 0.48 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 2 | 0.48 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 16 | 0.48 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 15 | 0.48 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 3 | 0.48 |
| (1,1806) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HD3 | 16 | 0.48 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 8 | 0.48 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 8 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 9 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 9 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 9 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 19 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 19 | 0.48 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 19 | 0.48 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 7 | 0.48 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 7 | 0.48 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 7 | 0.48 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 11 | 0.48 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 1 | 0.48 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 1 | 0.48 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 19 | 0.48 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 14 | 0.47 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 14 | 0.47 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 18 | 0.47 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 9 | 0.47 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 4 | 0.47 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 4 | 0.47 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 4 | 0.47 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 18 | 0.47 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 18 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 18 | 0.47 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 9 | 0.47 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 11 | 0.47 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 19 | 0.47 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 19 | 0.47 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 6 | 0.47 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 6 | 0.47 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 6 | 0.47 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 8 | 0.47 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 8 | 0.47 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 8 | 0.47 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 11 | 0.47 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 11 | 0.47 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 11 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 4 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 4 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 4 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 5 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 5 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 5 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 14 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 14 | 0.47 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 14 | 0.47 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 2 | 0.47 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 2 | 0.47 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 2 | 0.47 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 5 | 0.47 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 12 | 0.47 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 17 | 0.47 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 11 | 0.47 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 11 | 0.47 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 14 | 0.47 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 14 | 0.47 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 14 | 0.47 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 3 | 0.47 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 3 | 0.47 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 3 | 0.47 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 14 | 0.47 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 14 | 0.47 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 14 | 0.47 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 18 | 0.47 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 18 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 18 | 0.47 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 19 | 0.47 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 19 | 0.47 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 19 | 0.47 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 7 | 0.47 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 7 | 0.47 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 7 | 0.47 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 2 | 0.47 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 2 | 0.47 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 2 | 0.47 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 2 | 0.47 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 12 | 0.47 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 17 | 0.47 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 10 | 0.47 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 3 | 0.46 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD11 | 2 | 0.46 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD12 | 2 | 0.46 |
| (1,3596) | 1:15:A:SER:HB3 | 1:14:A:ILE:HD13 | 2 | 0.46 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 13 | 0.46 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 13 | 0.46 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 11 | 0.46 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 4 | 0.46 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 4 | 0.46 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 4 | 0.46 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 19 | 0.46 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 19 | 0.46 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 19 | 0.46 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 7 | 0.46 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 7 | 0.46 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 7 | 0.46 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 19 | 0.46 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 19 | 0.46 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 19 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 1 | 0.46 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 1 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 13 | 0.46 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 13 | 0.46 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 13 | 0.46 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 16 | 0.46 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 16 | 0.46 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 16 | 0.46 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 6 | 0.46 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 1 | 0.46 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 16 | 0.46 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 10 | 0.46 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 3 | 0.46 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 3 | 0.46 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 3 | 0.46 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 2 | 0.46 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 2 | 0.46 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 12 | 0.46 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 12 | 0.46 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 12 | 0.46 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 6 | 0.46 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 6 | 0.46 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 6 | 0.46 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 14 | 0.46 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 14 | 0.46 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 14 | 0.46 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 1 | 0.46 |
| (1,386) | 1:96:A:HIS:HB3 | 1:119:A:ILE:H | 10 | 0.46 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 16 | 0.46 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 16 | 0.46 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 5 | 0.45 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 5 | 0.45 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 17 | 0.45 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 17 | 0.45 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 13 | 0.45 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 17 | 0.45 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD11 | 19 | 0.45 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD12 | 19 | 0.45 |
| (1,3386) | 1:32:A:THR:HA | 1:31:A:LEU:HD13 | 19 | 0.45 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 20 | 0.45 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 20 | 0.45 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 20 | 0.45 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 14 | 0.45 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 14 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 14 | 0.45 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 9 | 0.45 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 9 | 0.45 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 9 | 0.45 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 4 | 0.45 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 4 | 0.45 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 4 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG21 | 5 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG22 | 5 | 0.45 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG23 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 5 | 0.45 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 5 | 0.45 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 2 | 0.45 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 2 | 0.45 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 2 | 0.45 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 7 | 0.45 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 7 | 0.45 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 7 | 0.45 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 10 | 0.45 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 8 | 0.45 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 8 | 0.45 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 8 | 0.45 |
| (1,2287) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HG13 | 9 | 0.45 |
| (1,2287) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HG13 | 9 | 0.45 |
| (1,2287) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HG13 | 9 | 0.45 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 19 | 0.45 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 12 | 0.45 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 12 | 0.45 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 12 | 0.45 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 6 | 0.45 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 19 | 0.45 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 19 | 0.45 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 19 | 0.45 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 9 | 0.45 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 9 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 9 | 0.45 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 10 | 0.45 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 10 | 0.45 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 10 | 0.45 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 1 | 0.45 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 6 | 0.45 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 6 | 0.45 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 6 | 0.45 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 12 | 0.45 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 12 | 0.45 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 12 | 0.45 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 8 | 0.45 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 7 | 0.45 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 7 | 0.45 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 2 | 0.45 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 2 | 0.45 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 13 | 0.45 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 13 | 0.45 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 2 | 0.44 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 14 | 0.44 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 17 | 0.44 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 17 | 0.44 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 17 | 0.44 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 5 | 0.44 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 15 | 0.44 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 5 | 0.44 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 5 | 0.44 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 5 | 0.44 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 9 | 0.44 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 9 | 0.44 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 9 | 0.44 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 6 | 0.44 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 6 | 0.44 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 6 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 16 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 16 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 16 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 16 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 16 | 0.44 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 16 | 0.44 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 1 | 0.44 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 1 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 1 | 0.44 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 12 | 0.44 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 12 | 0.44 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 12 | 0.44 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 17 | 0.44 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 7 | 0.44 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 11 | 0.44 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB2 | 8 | 0.44 |
| (1,2239) | 1:104:A:SER:HA | 1:102:A:GLN:HB3 | 8 | 0.44 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 3 | 0.44 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 3 | 0.44 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 3 | 0.44 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 8 | 0.44 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 8 | 0.44 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 8 | 0.44 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 2 | 0.44 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 2 | 0.44 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 2 | 0.44 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 4 | 0.44 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 4 | 0.44 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 4 | 0.44 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 15 | 0.44 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 15 | 0.44 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 15 | 0.44 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 10 | 0.44 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 10 | 0.44 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 10 | 0.44 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 15 | 0.44 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 15 | 0.44 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 15 | 0.44 |
| (1,929) | 1:3:A:VAL:HG11 | 1:34:A:LYS:H | 9 | 0.44 |
| (1,929) | 1:3:A:VAL:HG12 | 1:34:A:LYS:H | 9 | 0.44 |
| (1,929) | 1:3:A:VAL:HG13 | 1:34:A:LYS:H | 9 | 0.44 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 15 | 0.44 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 4 | 0.44 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 5 | 0.44 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 5 | 0.44 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 7 | 0.44 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 7 | 0.44 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 6 | 0.43 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 6 | 0.43 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 6 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 6 | 0.43 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 6 | 0.43 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 6 | 0.43 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 11 | 0.43 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 11 | 0.43 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 6 | 0.43 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 6 | 0.43 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 14 | 0.43 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 7 | 0.43 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 7 | 0.43 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 7 | 0.43 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 11 | 0.43 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 11 | 0.43 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 11 | 0.43 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG21 | 13 | 0.43 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG22 | 13 | 0.43 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:54:A:ILE:HG23 | 13 | 0.43 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 12 | 0.43 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 12 | 0.43 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 12 | 0.43 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 15 | 0.43 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 15 | 0.43 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 15 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 7 | 0.43 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 7 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 14 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 14 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 14 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 14 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 14 | 0.43 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 14 | 0.43 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 11 | 0.43 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 11 | 0.43 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 11 | 0.43 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 6 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 6 | 0.43 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 6 | 0.43 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 5 | 0.43 |
| (1,2339) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HG2 | 20 | 0.43 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 6 | 0.43 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 6 | 0.43 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 6 | 0.43 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 6 | 0.43 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 6 | 0.43 |
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 20 | 0.43 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 8 | 0.43 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 8 | 0.43 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 8 | 0.43 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 2 | 0.43 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 15 | 0.43 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 15 | 0.43 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 15 | 0.43 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 19 | 0.43 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 9 | 0.43 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 20 | 0.43 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 10 | 0.43 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 13 | 0.42 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 2 | 0.42 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 2 | 0.42 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 5 | 0.42 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 11 | 0.42 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 20 | 0.42 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 15 | 0.42 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 13 | 0.42 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 13 | 0.42 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 13 | 0.42 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 7 | 0.42 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 7 | 0.42 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 7 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 20 | 0.42 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 20 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 20 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 10 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 10 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 10 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 10 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 10 | 0.42 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 10 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 1 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 1 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 1 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 13 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 13 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 13 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 20 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 20 | 0.42 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 20 | 0.42 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 7 | 0.42 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 7 | 0.42 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 7 | 0.42 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 4 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD21 | 7 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD22 | 7 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD23 | 7 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD21 | 7 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD22 | 7 | 0.42 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD23 | 7 | 0.42 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 2 | 0.42 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 12 | 0.42 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 14 | 0.42 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 14 | 0.42 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 14 | 0.42 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 4 | 0.42 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 4 | 0.42 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 4 | 0.42 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 19 | 0.42 |
| (1,1091) | 1:108:A:LEU:HD21 | 1:104:A:SER:H | 4 | 0.42 |
| (1,1091) | 1:108:A:LEU:HD22 | 1:104:A:SER:H | 4 | 0.42 |
| (1,1091) | 1:108:A:LEU:HD23 | 1:104:A:SER:H | 4 | 0.42 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 20 | 0.42 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 20 | 0.42 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 20 | 0.42 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 13 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 13 | 0.42 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 13 | 0.42 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 15 | 0.42 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 11 | 0.42 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 10 | 0.42 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 20 | 0.41 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 20 | 0.41 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 20 | 0.41 |
| (1,3568) | 1:89:A:ASP:HB2 | 1:88:A:ASN:HB2 | 12 | 0.41 |
| (1,3568) | 1:89:A:ASP:HB3 | 1:88:A:ASN:HB2 | 12 | 0.41 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 16 | 0.41 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 1 | 0.41 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 13 | 0.41 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 7 | 0.41 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 12 | 0.41 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 10 | 0.41 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 10 | 0.41 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 10 | 0.41 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 7 | 0.41 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 7 | 0.41 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 7 | 0.41 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 7 | 0.41 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 7 | 0.41 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 7 | 0.41 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 19 | 0.41 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 19 | 0.41 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 19 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 5 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 5 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 5 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 7 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 7 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 7 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 12 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 12 | 0.41 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 12 | 0.41 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 5 | 0.41 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 5 | 0.41 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 5 | 0.41 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 1 | 0.41 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 4 | 0.41 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 9 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 11 | 0.41 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD11 | 10 | 0.41 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD12 | 10 | 0.41 |
| (1,1353) | 1:55:A:LEU:H | 1:68:A:ILE:HD13 | 10 | 0.41 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 17 | 0.41 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 14 | 0.41 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 14 | 0.41 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 14 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 10 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 10 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 10 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 14 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 14 | 0.41 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 14 | 0.41 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 18 | 0.41 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 18 | 0.41 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 19 | 0.41 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 19 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 7 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 7 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 7 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 17 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 17 | 0.41 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 17 | 0.41 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 4 | 0.41 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 4 | 0.41 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 4 | 0.41 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 18 | 0.41 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 18 | 0.41 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 18 | 0.41 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 5 | 0.41 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 5 | 0.41 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 5 | 0.41 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 19 | 0.41 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 19 | 0.41 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 19 | 0.41 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 3 | 0.41 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 5 | 0.41 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 3 | 0.41 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 14 | 0.4 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 2 | 0.4 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 15 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 15 | 0.4 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 15 | 0.4 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 3 | 0.4 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 3 | 0.4 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 3 | 0.4 |
| (1,3019) | 1:63:A:GLY:HA2 | 1:65:A:THR:HB | 20 | 0.4 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG21 | 15 | 0.4 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG22 | 15 | 0.4 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG23 | 15 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 3 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 3 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 3 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 8 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 8 | 0.4 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 8 | 0.4 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 15 | 0.4 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 15 | 0.4 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 15 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 12 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 12 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 12 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 12 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 12 | 0.4 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 12 | 0.4 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 16 | 0.4 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 16 | 0.4 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 16 | 0.4 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 14 | 0.4 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 18 | 0.4 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 3 | 0.4 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 13 | 0.4 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 6 | 0.4 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 2 | 0.4 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 16 | 0.4 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 16 | 0.4 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 16 | 0.4 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 1 | 0.4 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 1 | 0.4 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 1 | 0.4 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 11 | 0.4 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 11 | 0.4 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 11 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 1 | 0.4 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 1 | 0.4 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 11 | 0.4 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 11 | 0.4 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 13 | 0.4 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 13 | 0.4 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 13 | 0.4 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 1 | 0.4 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 1 | 0.4 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 1 | 0.4 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 8 | 0.4 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 8 | 0.4 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 8 | 0.4 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 17 | 0.4 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 17 | 0.4 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 17 | 0.4 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 20 | 0.4 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 20 | 0.4 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 20 | 0.4 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 8 | 0.4 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 8 | 0.4 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 8 | 0.4 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 3 | 0.4 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 3 | 0.4 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 3 | 0.4 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 5 | 0.4 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 6 | 0.4 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 17 | 0.4 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 20 | 0.4 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 4 | 0.4 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 9 | 0.39 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 9 | 0.39 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 9 | 0.39 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 9 | 0.39 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 9 | 0.39 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 9 | 0.39 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 16 | 0.39 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 16 | 0.39 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 10 | 0.39 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 9 | 0.39 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 9 | 0.39 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 7 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 7 | 0.39 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 7 | 0.39 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 1 | 0.39 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 1 | 0.39 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 12 | 0.39 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 12 | 0.39 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 12 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 14 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 14 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 14 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 15 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 15 | 0.39 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 15 | 0.39 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 4 | 0.39 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 4 | 0.39 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 4 | 0.39 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 18 | 0.39 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 18 | 0.39 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 18 | 0.39 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 18 | 0.39 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 18 | 0.39 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 18 | 0.39 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 4 | 0.39 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 4 | 0.39 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 4 | 0.39 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 2 | 0.39 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 2 | 0.39 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 2 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 13 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 13 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 13 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 13 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 13 | 0.39 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 13 | 0.39 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 10 | 0.39 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 10 | 0.39 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 10 | 0.39 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 18 | 0.39 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 18 | 0.39 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 18 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 16 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 16 | 0.39 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 16 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 1 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 1 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 1 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 1 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 1 | 0.39 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 1 | 0.39 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 17 | 0.39 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 17 | 0.39 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 17 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 9 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 9 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 9 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 13 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 13 | 0.39 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 13 | 0.39 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 4 | 0.39 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 4 | 0.39 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 4 | 0.39 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 3 | 0.39 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 13 | 0.39 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 8 | 0.39 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 8 | 0.39 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 8 | 0.39 |
| (1,2410) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HG | 2 | 0.39 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 11 | 0.39 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 11 | 0.39 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 11 | 0.39 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 17 | 0.39 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 17 | 0.39 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 17 | 0.39 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 5 | 0.39 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 7 | 0.39 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 18 | 0.39 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG2 | 13 | 0.39 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG3 | 13 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG2 | 13 | 0.39 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG3 | 13 | 0.39 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 14 | 0.39 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 17 | 0.39 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD2 | 14 | 0.39 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD3 | 14 | 0.39 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 16 | 0.39 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 16 | 0.39 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 16 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 3 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 3 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 3 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 5 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 5 | 0.39 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 5 | 0.39 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 12 | 0.39 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 12 | 0.39 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 12 | 0.39 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 9 | 0.39 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 9 | 0.39 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 9 | 0.39 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 16 | 0.39 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 16 | 0.39 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 16 | 0.39 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 9 | 0.39 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 9 | 0.39 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 9 | 0.39 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 11 | 0.39 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 11 | 0.39 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 11 | 0.39 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 16 | 0.39 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 16 | 0.39 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 16 | 0.39 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 7 | 0.39 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 17 | 0.39 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 1 | 0.39 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 12 | 0.39 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 12 | 0.39 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 8 | 0.39 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 7 | 0.38 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 7 | 0.38 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 5 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 4 | 0.38 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 4 | 0.38 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 4 | 0.38 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 12 | 0.38 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 12 | 0.38 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 12 | 0.38 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 10 | 0.38 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 18 | 0.38 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 19 | 0.38 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 19 | 0.38 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 19 | 0.38 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 20 | 0.38 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 20 | 0.38 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 20 | 0.38 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 5 | 0.38 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 5 | 0.38 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 5 | 0.38 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 11 | 0.38 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 11 | 0.38 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 11 | 0.38 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 15 | 0.38 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 15 | 0.38 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 15 | 0.38 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 19 | 0.38 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 19 | 0.38 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 19 | 0.38 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG21 | 17 | 0.38 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG22 | 17 | 0.38 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG23 | 17 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 9 | 0.38 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 9 | 0.38 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 5 | 0.38 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 5 | 0.38 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 5 | 0.38 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 5 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 5 | 0.38 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 5 | 0.38 |
| (1,2367) | 1:2:A:SER:HA | 1:73:A:ILE:HG12 | 10 | 0.38 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 4 | 0.38 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 13 | 0.38 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 6 | 0.38 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 6 | 0.38 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 6 | 0.38 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 8 | 0.38 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 8 | 0.38 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 8 | 0.38 |
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 1 | 0.38 |
| (1,1137) | 1:79:A:ILE:HD11 | 1:96:A:HIS:H | 9 | 0.38 |
| (1,1137) | 1:79:A:ILE:HD12 | 1:96:A:HIS:H | 9 | 0.38 |
| (1,1137) | 1:79:A:ILE:HD13 | 1:96:A:HIS:H | 9 | 0.38 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 13 | 0.38 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 13 | 0.38 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 13 | 0.38 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 4 | 0.38 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 4 | 0.38 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 4 | 0.38 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 7 | 0.38 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 7 | 0.38 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 7 | 0.38 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 19 | 0.38 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 19 | 0.38 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 19 | 0.38 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 11 | 0.38 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 11 | 0.38 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 11 | 0.38 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 4 | 0.38 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 3 | 0.38 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 10 | 0.38 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 18 | 0.38 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 15 | 0.38 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 19 | 0.38 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 1 | 0.38 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 1 | 0.38 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 1 | 0.37 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 1 | 0.37 |
| (1,3812) | 1:12:A:GLY:HA3 | 1:4:A:LYS:HD2 | 19 | 0.37 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD11 | 11 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD12 | 11 | 0.37 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD13 | 11 | 0.37 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 15 | 0.37 |
| (1,3696) | 1:108:A:LEU:HD11 | 1:102:A:GLN:HG3 | 11 | 0.37 |
| (1,3696) | 1:108:A:LEU:HD12 | 1:102:A:GLN:HG3 | 11 | 0.37 |
| (1,3696) | 1:108:A:LEU:HD13 | 1:102:A:GLN:HG3 | 11 | 0.37 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 2 | 0.37 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 3 | 0.37 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 12 | 0.37 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 3 | 0.37 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 10 | 0.37 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 14 | 0.37 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 7 | 0.37 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 7 | 0.37 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 7 | 0.37 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 17 | 0.37 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 17 | 0.37 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 17 | 0.37 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 19 | 0.37 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 19 | 0.37 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 15 | 0.37 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 15 | 0.37 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 15 | 0.37 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG21 | 10 | 0.37 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG22 | 10 | 0.37 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG23 | 10 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 14 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 17 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 17 | 0.37 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 17 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 11 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 18 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 18 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 18 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 18 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 18 | 0.37 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 18 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 18 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 18 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 18 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 19 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 19 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 19 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 20 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 20 | 0.37 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 20 | 0.37 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 20 | 0.37 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 20 | 0.37 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 20 | 0.37 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 12 | 0.37 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 12 | 0.37 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 12 | 0.37 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 5 | 0.37 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 18 | 0.37 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 18 | 0.37 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 8 | 0.37 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 20 | 0.37 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 2 | 0.37 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 2 | 0.37 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 2 | 0.37 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD2 | 13 | 0.37 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD3 | 13 | 0.37 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 2 | 0.37 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 2 | 0.37 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 2 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD11 | 9 | 0.37 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD12 | 9 | 0.37 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD13 | 9 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 9 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 9 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 9 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 15 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 15 | 0.37 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 15 | 0.37 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 11 | 0.37 |
| (1,1221) | 1:57:A:MET:HB2 | 1:63:A:GLY:H | 20 | 0.37 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 19 | 0.37 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 19 | 0.37 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 19 | 0.37 |
| (1,1097) | 1:108:A:LEU:HD21 | 1:112:A:ASP:H | 9 | 0.37 |
| (1,1097) | 1:108:A:LEU:HD22 | 1:112:A:ASP:H | 9 | 0.37 |
| (1,1097) | 1:108:A:LEU:HD23 | 1:112:A:ASP:H | 9 | 0.37 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 16 | 0.37 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 16 | 0.37 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 16 | 0.37 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 9 | 0.37 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 9 | 0.37 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 9 | 0.37 |
| (1,970) | 1:4:A:LYS:HB2 | 1:71:A:ASN:H | 9 | 0.37 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 9 | 0.37 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 19 | 0.37 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 20 | 0.37 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 8 | 0.37 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 8 | 0.37 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 20 | 0.37 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 4 | 0.37 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 4 | 0.37 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 10 | 0.36 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 10 | 0.36 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 13 | 0.36 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 13 | 0.36 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 1 | 0.36 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG21 | 1 | 0.36 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG22 | 1 | 0.36 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG23 | 1 | 0.36 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 17 | 0.36 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 17 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 17 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 1 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 1 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 1 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 10 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 10 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 10 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 12 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 12 | 0.36 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 12 | 0.36 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 16 | 0.36 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 16 | 0.36 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 16 | 0.36 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB1 | 6 | 0.36 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB2 | 6 | 0.36 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB3 | 6 | 0.36 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 8 | 0.36 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 8 | 0.36 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 8 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 2 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 2 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 2 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 12 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 12 | 0.36 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 12 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 7 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 7 | 0.36 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 7 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 1 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 1 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 1 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 9 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 9 | 0.36 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 9 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 4 | 0.36 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 4 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 4 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 6 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 6 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 6 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 6 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 6 | 0.36 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 6 | 0.36 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 8 | 0.36 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 8 | 0.36 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 8 | 0.36 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 3 | 0.36 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 3 | 0.36 |
| (1,2120) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HB2 | 17 | 0.36 |
| (1,2120) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HB2 | 17 | 0.36 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 13 | 0.36 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 12 | 0.36 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 12 | 0.36 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 12 | 0.36 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 13 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 15 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 15 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 15 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 17 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 17 | 0.36 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 17 | 0.36 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 10 | 0.36 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 3 | 0.36 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 3 | 0.36 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 3 | 0.36 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 5 | 0.36 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 5 | 0.36 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 5 | 0.36 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 11 | 0.36 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 11 | 0.36 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 11 | 0.36 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 12 | 0.36 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 12 | 0.36 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 12 | 0.36 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 8 | 0.36 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 5 | 0.36 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 8 | 0.36 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 3 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 3 | 0.36 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 10 | 0.36 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 16 | 0.35 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 3 | 0.35 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 20 | 0.35 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 19 | 0.35 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 19 | 0.35 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 19 | 0.35 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 20 | 0.35 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 20 | 0.35 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 20 | 0.35 |
| (1,3074) | 1:72:A:ARG:HB2 | 1:71:A:ASN:HA | 16 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 1 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 1 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 1 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 5 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 5 | 0.35 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 5 | 0.35 |
| (1,3019) | 1:54:A:ILE:HA | 1:65:A:THR:HB | 3 | 0.35 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG21 | 8 | 0.35 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG22 | 8 | 0.35 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG23 | 8 | 0.35 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 8 | 0.35 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 8 | 0.35 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 8 | 0.35 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 8 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 13 | 0.35 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 13 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 16 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 16 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 16 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 16 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 16 | 0.35 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 16 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD21 | 17 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD22 | 17 | 0.35 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD23 | 17 | 0.35 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 12 | 0.35 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 12 | 0.35 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 12 | 0.35 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 16 | 0.35 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 16 | 0.35 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 16 | 0.35 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 18 | 0.35 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 18 | 0.35 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 18 | 0.35 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 17 | 0.35 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 17 | 0.35 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 17 | 0.35 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 2 | 0.35 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 2 | 0.35 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 2 | 0.35 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 2 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 19 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 19 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 19 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 19 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 19 | 0.35 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 19 | 0.35 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 10 | 0.35 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 14 | 0.35 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 17 | 0.35 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 3 | 0.35 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 3 | 0.35 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 3 | 0.35 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 5 | 0.35 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 5 | 0.35 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 5 | 0.35 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 13 | 0.35 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 13 | 0.35 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 13 | 0.35 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 1 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 1 | 0.35 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 1 | 0.35 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 6 | 0.35 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 9 | 0.35 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 8 | 0.35 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 8 | 0.35 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 8 | 0.35 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 12 | 0.35 |
| (1,1115) | 1:55:A:LEU:HD21 | 1:8:A:ILE:H | 18 | 0.35 |
| (1,1115) | 1:55:A:LEU:HD22 | 1:8:A:ILE:H | 18 | 0.35 |
| (1,1115) | 1:55:A:LEU:HD23 | 1:8:A:ILE:H | 18 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 6 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 6 | 0.35 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 6 | 0.35 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 16 | 0.35 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 16 | 0.35 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 16 | 0.35 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 6 | 0.35 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 6 | 0.35 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 6 | 0.35 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 13 | 0.35 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 13 | 0.35 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 13 | 0.35 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 19 | 0.35 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 19 | 0.35 |
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 19 | 0.35 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 15 | 0.35 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 15 | 0.35 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 15 | 0.35 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 7 | 0.35 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 7 | 0.35 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 7 | 0.35 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 15 | 0.35 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 7 | 0.35 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 7 | 0.35 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 7 | 0.35 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 3 | 0.35 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 10 | 0.35 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 18 | 0.35 |
| (1,396) | 1:39:A:ALA:HA | 1:8:A:ILE:H | 13 | 0.35 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 16 | 0.35 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 10 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 10 | 0.35 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD1 | 15 | 0.34 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD2 | 15 | 0.34 |
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD1 | 15 | 0.34 |
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD2 | 15 | 0.34 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD1 | 15 | 0.34 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD2 | 15 | 0.34 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 9 | 0.34 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 11 | 0.34 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 17 | 0.34 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 20 | 0.34 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 2 | 0.34 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 2 | 0.34 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 19 | 0.34 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 19 | 0.34 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 19 | 0.34 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 1 | 0.34 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 6 | 0.34 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 15 | 0.34 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG21 | 8 | 0.34 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG22 | 8 | 0.34 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG23 | 8 | 0.34 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 12 | 0.34 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 19 | 0.34 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 5 | 0.34 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 5 | 0.34 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 5 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 2 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 2 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 2 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 3 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 3 | 0.34 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 3 | 0.34 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG21 | 18 | 0.34 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG22 | 18 | 0.34 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG23 | 18 | 0.34 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 1 | 0.34 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 1 | 0.34 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 1 | 0.34 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 8 | 0.34 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 8 | 0.34 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 8 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 17 | 0.34 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 17 | 0.34 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 17 | 0.34 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 3 | 0.34 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 3 | 0.34 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 3 | 0.34 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD21 | 13 | 0.34 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD22 | 13 | 0.34 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD23 | 13 | 0.34 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 10 | 0.34 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 10 | 0.34 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 10 | 0.34 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 3 | 0.34 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 3 | 0.34 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 3 | 0.34 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 19 | 0.34 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 19 | 0.34 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 19 | 0.34 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 16 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD21 | 18 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD22 | 18 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD1 | 1:59:A:LEU:HD23 | 18 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD21 | 18 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD22 | 18 | 0.34 |
| (1,2344) | 1:19:A:TYR:HD2 | 1:59:A:LEU:HD23 | 18 | 0.34 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 15 | 0.34 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 11 | 0.34 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 8 | 0.34 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 9 | 0.34 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 9 | 0.34 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 2 | 0.34 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 2 | 0.34 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 2 | 0.34 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 20 | 0.34 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 20 | 0.34 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 20 | 0.34 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 12 | 0.34 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 12 | 0.34 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 12 | 0.34 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 12 | 0.34 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 12 | 0.34 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 12 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 18 | 0.34 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 18 | 0.34 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 18 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 7 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 7 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 7 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 17 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 17 | 0.34 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 17 | 0.34 |
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 6 | 0.34 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 19 | 0.34 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 19 | 0.34 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 19 | 0.34 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 6 | 0.34 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 6 | 0.34 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 6 | 0.34 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 4 | 0.34 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 4 | 0.34 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 9 | 0.34 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 9 | 0.34 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 8 | 0.34 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 4 | 0.34 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 4 | 0.34 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 4 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 16 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 16 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 16 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 20 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 20 | 0.34 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 20 | 0.34 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 4 | 0.34 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 4 | 0.34 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 4 | 0.34 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 18 | 0.34 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 18 | 0.34 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 18 | 0.34 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 17 | 0.34 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 17 | 0.34 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 17 | 0.34 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 1 | 0.34 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 13 | 0.34 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 18 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 9 | 0.34 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 3 | 0.34 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 9 | 0.34 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 8 | 0.34 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 8 | 0.34 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 6 | 0.34 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 6 | 0.33 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 11 | 0.33 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 20 | 0.33 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 20 | 0.33 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 12 | 0.33 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 12 | 0.33 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 12 | 0.33 |
| (1,3274) | 1:43:A:GLY:HA2 | 1:72:A:ARG:HD2 | 15 | 0.33 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 17 | 0.33 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 15 | 0.33 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 15 | 0.33 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 15 | 0.33 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 3 | 0.33 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 3 | 0.33 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 3 | 0.33 |
| (1,3171) | 1:20:A:ALA:HB1 | 1:21:A:ILE:HA | 6 | 0.33 |
| (1,3171) | 1:20:A:ALA:HB2 | 1:21:A:ILE:HA | 6 | 0.33 |
| (1,3171) | 1:20:A:ALA:HB3 | 1:21:A:ILE:HA | 6 | 0.33 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 8 | 0.33 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 8 | 0.33 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 8 | 0.33 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 6 | 0.33 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 6 | 0.33 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 6 | 0.33 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB1 | 2 | 0.33 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB2 | 2 | 0.33 |
| (1,2904) | 1:6:A:GLY:HA3 | 1:38:A:ALA:HB3 | 2 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 14 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 14 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 14 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 14 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 14 | 0.33 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 14 | 0.33 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 2 | 0.33 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 2 | 0.33 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 2 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 2 | 0.33 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 2 | 0.33 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 2 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 4 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 4 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 4 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 4 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 4 | 0.33 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 4 | 0.33 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 14 | 0.33 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 14 | 0.33 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 14 | 0.33 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 10 | 0.33 |
| (1,2367) | 1:72:A:ARG:HA | 1:73:A:ILE:HG12 | 5 | 0.33 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 3 | 0.33 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 3 | 0.33 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 3 | 0.33 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 20 | 0.33 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 20 | 0.33 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 20 | 0.33 |
| (1,2120) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HB2 | 14 | 0.33 |
| (1,2120) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HB2 | 14 | 0.33 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 9 | 0.33 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 9 | 0.33 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 9 | 0.33 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 9 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 7 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 7 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 7 | 0.33 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 11 | 0.33 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 11 | 0.33 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 11 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 18 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 18 | 0.33 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 18 | 0.33 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 20 | 0.33 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 20 | 0.33 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 20 | 0.33 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 6 | 0.33 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 6 | 0.33 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 6 | 0.33 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 5 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|---------------|----------|---------------|
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 5 | 0.33 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 5 | 0.33 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 6 | 0.33 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 6 | 0.33 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 6 | 0.33 |
| (1,1132) | 1:134:A:ARG:HG2 | 1:130:A:TYR:H | 11 | 0.33 |
| (1,1132) | 1:134:A:ARG:HG3 | 1:130:A:TYR:H | 11 | 0.33 |
| (1,1115) | 1:55:A:LEU:HD21 | 1:8:A:ILE:H | 7 | 0.33 |
| (1,1115) | 1:55:A:LEU:HD22 | 1:8:A:ILE:H | 7 | 0.33 |
| (1,1115) | 1:55:A:LEU:HD23 | 1:8:A:ILE:H | 7 | 0.33 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 7 | 0.33 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 7 | 0.33 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 7 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 7 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 7 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 7 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 17 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 17 | 0.33 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 17 | 0.33 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 6 | 0.33 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 6 | 0.33 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 6 | 0.33 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 5 | 0.33 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 5 | 0.33 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 5 | 0.33 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 1 | 0.33 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 1 | 0.33 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 1 | 0.33 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 13 | 0.33 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 13 | 0.33 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 13 | 0.33 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 14 | 0.33 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 14 | 0.33 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 14 | 0.33 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 16 | 0.33 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 12 | 0.33 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 19 | 0.33 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 4 | 0.33 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 16 | 0.33 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 15 | 0.33 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 17 | 0.33 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 18 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 16 | 0.32 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 2 | 0.32 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 2 | 0.32 |
| (1,3746) | 1:57:A:MET:HA | 1:62:A:LYS:HG2 | 9 | 0.32 |
| (1,3635) | 1:76:A:TYR:HB2 | 1:113:A:ALA:HA | 14 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG21 | 1:129:A:LYS:HD2 | 12 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG21 | 1:129:A:LYS:HD3 | 12 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG22 | 1:129:A:LYS:HD2 | 12 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG22 | 1:129:A:LYS:HD3 | 12 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG23 | 1:129:A:LYS:HD2 | 12 | 0.32 |
| (1,3571) | 1:135:A:ILE:HG23 | 1:129:A:LYS:HD3 | 12 | 0.32 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 4 | 0.32 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 13 | 0.32 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 8 | 0.32 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 8 | 0.32 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 8 | 0.32 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 8 | 0.32 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 8 | 0.32 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 8 | 0.32 |
| (1,3171) | 1:103:A:LEU:HG | 1:107:A:SER:HB3 | 9 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 13 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 13 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 13 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB1 | 1:54:A:ILE:HA | 14 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB2 | 1:54:A:ILE:HA | 14 | 0.32 |
| (1,3171) | 1:53:A:ALA:HB3 | 1:54:A:ILE:HA | 14 | 0.32 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 9 | 0.32 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 9 | 0.32 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 9 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 12 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 12 | 0.32 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 12 | 0.32 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 17 | 0.32 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 17 | 0.32 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 17 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 2 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 2 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 2 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 7 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 7 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 7 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 9 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 9 | 0.32 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 9 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 16 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 16 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 16 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 16 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 16 | 0.32 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 16 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 3 | 0.32 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 3 | 0.32 |
| (1,2499) | 1:62:A:LYS:HA | 1:62:A:LYS:HG3 | 4 | 0.32 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 5 | 0.32 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 14 | 0.32 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 14 | 0.32 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 14 | 0.32 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD11 | 6 | 0.32 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD12 | 6 | 0.32 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD13 | 6 | 0.32 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 17 | 0.32 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 17 | 0.32 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 17 | 0.32 |
| (1,2356) | 1:62:A:LYS:HA | 1:62:A:LYS:HD3 | 9 | 0.32 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 1 | 0.32 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 1 | 0.32 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 1 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 11 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 11 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 11 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 11 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 11 | 0.32 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 11 | 0.32 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 18 | 0.32 |
| (1,2260) | 1:111:A:ALA:HA | 1:127:A:ILE:HG12 | 18 | 0.32 |
| (1,2260) | 1:111:A:ALA:HA | 1:127:A:ILE:HG13 | 18 | 0.32 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 10 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE2 | 14 | 0.32 |
| (1,1784) | 1:125:A:ILE:H | 1:129:A:LYS:HE3 | 14 | 0.32 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 7 | 0.32 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 7 | 0.32 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 7 | 0.32 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 1 | 0.32 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 1 | 0.32 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 1 | 0.32 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 10 | 0.32 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 18 | 0.32 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 18 | 0.32 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 18 | 0.32 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 16 | 0.32 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 8 | 0.32 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 8 | 0.32 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 8 | 0.32 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 10 | 0.32 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 10 | 0.32 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 10 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 12 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 12 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 12 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 13 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 13 | 0.32 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 13 | 0.32 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 9 | 0.32 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 9 | 0.32 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 9 | 0.32 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 15 | 0.32 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 15 | 0.32 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 15 | 0.32 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 2 | 0.32 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 2 | 0.32 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 2 | 0.32 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 8 | 0.32 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 8 | 0.32 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 8 | 0.32 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 13 | 0.32 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 13 | 0.32 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 13 | 0.32 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 4 | 0.32 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 3 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 10 | 0.32 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 8 | 0.32 |
| (1,446) | 1:43:A:GLY:HA2 | 1:44:A:ASN:H | 9 | 0.32 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 3 | 0.32 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 2 | 0.32 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD1 | 11 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD21 | 1:19:A:TYR:HD2 | 11 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD1 | 11 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD22 | 1:19:A:TYR:HD2 | 11 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD1 | 11 | 0.31 |
| (1,3943) | 1:59:A:LEU:HD23 | 1:19:A:TYR:HD2 | 11 | 0.31 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 18 | 0.31 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 18 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD1 | 17 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD2 | 17 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD1 | 17 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD2 | 17 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD1 | 17 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD2 | 17 | 0.31 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB1 | 11 | 0.31 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB2 | 11 | 0.31 |
| (1,3840) | 1:112:A:ASP:HB3 | 1:111:A:ALA:HB3 | 11 | 0.31 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 8 | 0.31 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 8 | 0.31 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 8 | 0.31 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 10 | 0.31 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 10 | 0.31 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 5 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 18 | 0.31 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 18 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD11 | 16 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD12 | 16 | 0.31 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD13 | 16 | 0.31 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 10 | 0.31 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 10 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 10 | 0.31 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 4 | 0.31 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 4 | 0.31 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 4 | 0.31 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG21 | 16 | 0.31 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG22 | 16 | 0.31 |
| (1,2966) | 1:95:A:ASN:HB3 | 1:91:A:ILE:HG23 | 16 | 0.31 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 11 | 0.31 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 11 | 0.31 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 11 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 17 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 17 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 17 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 17 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 17 | 0.31 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 17 | 0.31 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 5 | 0.31 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 5 | 0.31 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 5 | 0.31 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 5 | 0.31 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 5 | 0.31 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 5 | 0.31 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 20 | 0.31 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 20 | 0.31 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 20 | 0.31 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 19 | 0.31 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 19 | 0.31 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 19 | 0.31 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD21 | 2 | 0.31 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD22 | 2 | 0.31 |
| (1,2546) | 1:35:A:GLN:HB2 | 1:31:A:LEU:HD23 | 2 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 9 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 20 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 20 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 20 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 20 | 0.31 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 20 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 20 | 0.31 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 12 | 0.31 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 12 | 0.31 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 12 | 0.31 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 10 | 0.31 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 17 | 0.31 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 17 | 0.31 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 17 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 3 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 3 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 3 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 15 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 15 | 0.31 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 15 | 0.31 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 4 | 0.31 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 14 | 0.31 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 20 | 0.31 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 16 | 0.31 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 16 | 0.31 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 16 | 0.31 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 6 | 0.31 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 13 | 0.31 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 16 | 0.31 |
| (1,1843) | 1:24:A:SER:HB2 | 1:23:A:LYS:HE2 | 12 | 0.31 |
| (1,1843) | 1:24:A:SER:HB3 | 1:23:A:LYS:HE2 | 12 | 0.31 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 8 | 0.31 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 8 | 0.31 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 10 | 0.31 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 10 | 0.31 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 10 | 0.31 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 10 | 0.31 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 10 | 0.31 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 5 | 0.31 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 16 | 0.31 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 16 | 0.31 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 16 | 0.31 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD11 | 6 | 0.31 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD12 | 6 | 0.31 |
| (1,1353) | 1:66:A:SER:H | 1:68:A:ILE:HD13 | 6 | 0.31 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 20 | 0.31 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 20 | 0.31 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 20 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 16 | 0.31 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 16 | 0.31 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 16 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 2 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 2 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 2 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 4 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 4 | 0.31 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 4 | 0.31 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 5 | 0.31 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 5 | 0.31 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 5 | 0.31 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 4 | 0.31 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 4 | 0.31 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 4 | 0.31 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 17 | 0.31 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 17 | 0.31 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 17 | 0.31 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 8 | 0.31 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 6 | 0.31 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 14 | 0.31 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 14 | 0.31 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 14 | 0.31 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 15 | 0.31 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 15 | 0.31 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 9 | 0.31 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 18 | 0.31 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD1 | 2 | 0.3 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD2 | 2 | 0.3 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD1 | 2 | 0.3 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD2 | 2 | 0.3 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD1 | 2 | 0.3 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD2 | 2 | 0.3 |
| (1,3871) | 1:11:A:ASN:H | 1:7:A:ASP:HB3 | 14 | 0.3 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 13 | 0.3 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 13 | 0.3 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 13 | 0.3 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD11 | 19 | 0.3 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD12 | 19 | 0.3 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD13 | 19 | 0.3 |
| (1,3696) | 1:108:A:LEU:HD11 | 1:102:A:GLN:HG3 | 19 | 0.3 |
| (1,3696) | 1:108:A:LEU:HD12 | 1:102:A:GLN:HG3 | 19 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3696) | 1:108:A:LEU:HD13 | 1:102:A:GLN:HG3 | 19 | 0.3 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 1 | 0.3 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 1 | 0.3 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 1 | 0.3 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 10 | 0.3 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 10 | 0.3 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 10 | 0.3 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 6 | 0.3 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 6 | 0.3 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 6 | 0.3 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 18 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 6 | 0.3 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 6 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 3 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 3 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 3 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 3 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 3 | 0.3 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 3 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 5 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 5 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 5 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG21 | 9 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG22 | 9 | 0.3 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG23 | 9 | 0.3 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG21 | 10 | 0.3 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG22 | 10 | 0.3 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG23 | 10 | 0.3 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 19 | 0.3 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 19 | 0.3 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 19 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 2 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 2 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 2 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 2 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 2 | 0.3 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 2 | 0.3 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 3 | 0.3 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 3 | 0.3 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 3 | 0.3 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 13 | 0.3 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 13 | 0.3 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 13 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 3 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 3 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 3 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 4 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 4 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 4 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 6 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 6 | 0.3 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 6 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 11 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 11 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 11 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 12 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 12 | 0.3 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 12 | 0.3 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG21 | 14 | 0.3 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG22 | 14 | 0.3 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG23 | 14 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 8 | 0.3 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 8 | 0.3 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 1 | 0.3 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 1 | 0.3 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 1 | 0.3 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD21 | 10 | 0.3 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD22 | 10 | 0.3 |
| (1,2523) | 1:8:A:ILE:HA | 1:22:A:LEU:HD23 | 10 | 0.3 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 8 | 0.3 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 8 | 0.3 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 2 | 0.3 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 6 | 0.3 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 11 | 0.3 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 15 | 0.3 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 16 | 0.3 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD21 | 9 | 0.3 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD22 | 9 | 0.3 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:60:A:LEU:HD23 | 9 | 0.3 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 17 | 0.3 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 13 | 0.3 |
| (1,2247) | 1:70:A:LYS:HA | 1:70:A:LYS:HD2 | 16 | 0.3 |
| (1,2120) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HB2 | 10 | 0.3 |
| (1,2120) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HB2 | 10 | 0.3 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 1 | 0.3 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 3 | 0.3 |
| (1,2001) | 1:11:A:ASN:HD22 | 1:11:A:ASN:HB3 | 17 | 0.3 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 14 | 0.3 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 19 | 0.3 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 13 | 0.3 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 13 | 0.3 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 13 | 0.3 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 12 | 0.3 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 12 | 0.3 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 12 | 0.3 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 15 | 0.3 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 18 | 0.3 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 17 | 0.3 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 17 | 0.3 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 17 | 0.3 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 4 | 0.3 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 4 | 0.3 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 4 | 0.3 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 11 | 0.3 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 11 | 0.3 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 11 | 0.3 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 1 | 0.3 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 1 | 0.3 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 1 | 0.3 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 8 | 0.3 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 8 | 0.3 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 18 | 0.3 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 18 | 0.3 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 18 | 0.3 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 1 | 0.3 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 1 | 0.3 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 1 | 0.3 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 13 | 0.3 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 13 | 0.3 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 13 | 0.3 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 6 | 0.3 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 6 | 0.3 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 6 | 0.3 |
| (1,909) | 1:73:A:ILE:HG21 | 1:73:A:ILE:H | 20 | 0.3 |
| (1,909) | 1:73:A:ILE:HG22 | 1:73:A:ILE:H | 20 | 0.3 |
| (1,909) | 1:73:A:ILE:HG23 | 1:73:A:ILE:H | 20 | 0.3 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 14 | 0.3 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 14 | 0.3 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 14 | 0.3 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 16 | 0.3 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 16 | 0.3 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 16 | 0.3 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 17 | 0.3 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 17 | 0.3 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 17 | 0.3 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 20 | 0.3 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 7 | 0.3 |
| (1,605) | 1:90:A:TYR:HB2 | 1:93:A:ILE:H | 13 | 0.3 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 14 | 0.3 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 9 | 0.3 |
| (1,554) | 1:4:A:LYS:HE2 | 1:4:A:LYS:H | 13 | 0.3 |
| (1,554) | 1:4:A:LYS:HE3 | 1:4:A:LYS:H | 13 | 0.3 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 9 | 0.3 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 9 | 0.3 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 15 | 0.29 |
| (1,3890) | 1:4:A:LYS:H | 1:2:A:SER:HB2 | 20 | 0.29 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 6 | 0.29 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 5 | 0.29 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 5 | 0.29 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 14 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD21 | 8 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD22 | 8 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD23 | 8 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD11 | 14 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD12 | 14 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD13 | 14 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD11 | 15 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD12 | 15 | 0.29 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD13 | 15 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG3 | 8 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG3 | 8 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG3 | 8 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD11 | 1:102:A:GLN:HG3 | 14 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD12 | 1:102:A:GLN:HG3 | 14 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD13 | 1:102:A:GLN:HG3 | 14 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD11 | 1:102:A:GLN:HG3 | 15 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD12 | 1:102:A:GLN:HG3 | 15 | 0.29 |
| (1,3696) | 1:108:A:LEU:HD13 | 1:102:A:GLN:HG3 | 15 | 0.29 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 17 | 0.29 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 17 | 0.29 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 17 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 7 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 7 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 7 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 11 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 11 | 0.29 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 11 | 0.29 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 8 | 0.29 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 17 | 0.29 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 17 | 0.29 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 17 | 0.29 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 1 | 0.29 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 1 | 0.29 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 1 | 0.29 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 17 | 0.29 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 17 | 0.29 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 17 | 0.29 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 6 | 0.29 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 19 | 0.29 |
| (1,3019) | 1:63:A:GLY:HA2 | 1:65:A:THR:HB | 18 | 0.29 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 6 | 0.29 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 6 | 0.29 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 6 | 0.29 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG21 | 6 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG22 | 6 | 0.29 |
| (1,2844) | 1:59:A:LEU:H | 1:68:A:ILE:HG23 | 6 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 1 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 1 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 1 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 2 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 2 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 2 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 8 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 8 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 8 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 13 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 13 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 13 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG21 | 17 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG22 | 17 | 0.29 |
| (1,2832) | 1:131:A:ILE:H | 1:131:A:ILE:HG23 | 17 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 19 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 19 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 19 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG21 | 20 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG22 | 20 | 0.29 |
| (1,2832) | 1:91:A:ILE:H | 1:91:A:ILE:HG23 | 20 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 18 | 0.29 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 18 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 3 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 3 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 3 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 3 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 3 | 0.29 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 3 | 0.29 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 1 | 0.29 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 3 | 0.29 |
| (1,2499) | 1:62:A:LYS:HA | 1:62:A:LYS:HG3 | 12 | 0.29 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 13 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 18 | 0.29 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 20 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 19 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 19 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 19 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 20 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 20 | 0.29 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 20 | 0.29 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 2 | 0.29 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 18 | 0.29 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 15 | 0.29 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 15 | 0.29 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 15 | 0.29 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 2 | 0.29 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 2 | 0.29 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 2 | 0.29 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 15 | 0.29 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 16 | 0.29 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 18 | 0.29 |
| (1,1859) | 1:60:A:LEU:HD21 | 1:62:A:LYS:HE2 | 13 | 0.29 |
| (1,1859) | 1:60:A:LEU:HD22 | 1:62:A:LYS:HE2 | 13 | 0.29 |
| (1,1859) | 1:60:A:LEU:HD23 | 1:62:A:LYS:HE2 | 13 | 0.29 |
| (1,1851) | 1:125:A:ILE:HG12 | 1:124:A:ARG:HD2 | 16 | 0.29 |
| (1,1851) | 1:125:A:ILE:HG12 | 1:124:A:ARG:HD3 | 16 | 0.29 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD2 | 10 | 0.29 |
| (1,1817) | 1:132:A:THR:HB | 1:134:A:ARG:HD3 | 10 | 0.29 |
| (1,1806) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HD3 | 11 | 0.29 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 11 | 0.29 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 11 | 0.29 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 11 | 0.29 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 5 | 0.29 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 5 | 0.29 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 5 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 1 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 1 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 1 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 8 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 8 | 0.29 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 8 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 6 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 6 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 6 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 13 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 13 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 13 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 15 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 15 | 0.29 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 15 | 0.29 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 3 | 0.29 |
| (1,1092) | 1:103:A:LEU:HD21 | 1:111:A:ALA:H | 4 | 0.29 |
| (1,1092) | 1:103:A:LEU:HD22 | 1:111:A:ALA:H | 4 | 0.29 |
| (1,1092) | 1:103:A:LEU:HD23 | 1:111:A:ALA:H | 4 | 0.29 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 13 | 0.29 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 13 | 0.29 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 13 | 0.29 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 7 | 0.29 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 7 | 0.29 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 7 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 1 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 1 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 1 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 14 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 14 | 0.29 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 14 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 9 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 9 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 9 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 14 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 14 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 14 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 19 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 19 | 0.29 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 19 | 0.29 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 12 | 0.29 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 12 | 0.29 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 12 | 0.29 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 4 | 0.29 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 4 | 0.29 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 4 | 0.29 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 11 | 0.29 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 11 | 0.29 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 11 | 0.29 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 9 | 0.29 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 9 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 6 | 0.29 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 2 | 0.29 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 12 | 0.28 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 20 | 0.28 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG21 | 6 | 0.28 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG22 | 6 | 0.28 |
| (1,3832) | 1:116:A:ASN:H | 1:140:A:VAL:HG23 | 6 | 0.28 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 5 | 0.28 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 6 | 0.28 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 10 | 0.28 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 11 | 0.28 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 8 | 0.28 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 8 | 0.28 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD11 | 14 | 0.28 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD12 | 14 | 0.28 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD13 | 14 | 0.28 |
| (1,3568) | 1:86:A:ASP:HB2 | 1:88:A:ASN:HB2 | 4 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 8 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 8 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 8 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 17 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 17 | 0.28 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 17 | 0.28 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 1 | 0.28 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 1 | 0.28 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 1 | 0.28 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 1 | 0.28 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 19 | 0.28 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 19 | 0.28 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 19 | 0.28 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 6 | 0.28 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 6 | 0.28 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 6 | 0.28 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 8 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 2 | 0.28 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 2 | 0.28 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 2 | 0.28 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG21 | 20 | 0.28 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG22 | 20 | 0.28 |
| (1,2966) | 1:88:A:ASN:HB3 | 1:91:A:ILE:HG23 | 20 | 0.28 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 20 | 0.28 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 20 | 0.28 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 20 | 0.28 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 9 | 0.28 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 9 | 0.28 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 9 | 0.28 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG11 | 16 | 0.28 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG12 | 16 | 0.28 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG13 | 16 | 0.28 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 7 | 0.28 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 7 | 0.28 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 7 | 0.28 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 7 | 0.28 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 14 | 0.28 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 17 | 0.28 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 19 | 0.28 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD11 | 9 | 0.28 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD12 | 9 | 0.28 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD13 | 9 | 0.28 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 13 | 0.28 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 13 | 0.28 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 13 | 0.28 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 9 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 4 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 5 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 8 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 9 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 10 | 0.28 |
| (1,2001) | 1:11:A:ASN:HD22 | 1:11:A:ASN:HB3 | 11 | 0.28 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 15 | 0.28 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 18 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1827) | 1:20:A:ALA:HA | 1:23:A:LYS:HE2 | 9 | 0.28 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 20 | 0.28 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 20 | 0.28 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 20 | 0.28 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 15 | 0.28 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 16 | 0.28 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 16 | 0.28 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 16 | 0.28 |
| (1,1221) | 1:57:A:MET:HB2 | 1:63:A:GLY:H | 12 | 0.28 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 20 | 0.28 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 20 | 0.28 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 20 | 0.28 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 15 | 0.28 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 15 | 0.28 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 15 | 0.28 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 20 | 0.28 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 20 | 0.28 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 20 | 0.28 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 15 | 0.28 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 15 | 0.28 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 15 | 0.28 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 5 | 0.28 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 5 | 0.28 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 5 | 0.28 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 6 | 0.28 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 6 | 0.28 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 6 | 0.28 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 9 | 0.28 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 15 | 0.28 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 15 | 0.28 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 15 | 0.28 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 12 | 0.28 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 3 | 0.28 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD1 | 13 | 0.27 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD2 | 13 | 0.27 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 7 | 0.27 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 13 | 0.27 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 8 | 0.27 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 8 | 0.27 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 8 | 0.27 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 7 | 0.27 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 7 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 4 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 2 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 2 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 2 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 6 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 6 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 6 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 15 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 15 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 15 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 17 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 17 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 17 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 18 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 18 | 0.27 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 18 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 4 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 4 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 4 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 5 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 5 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 5 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 13 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 13 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 13 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 19 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 19 | 0.27 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 19 | 0.27 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 12 | 0.27 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 12 | 0.27 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 12 | 0.27 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 20 | 0.27 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 20 | 0.27 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 20 | 0.27 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 4 | 0.27 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 4 | 0.27 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 4 | 0.27 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG21 | 3 | 0.27 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG22 | 3 | 0.27 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:97:A:ILE:HG23 | 3 | 0.27 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 4 | 0.27 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 4 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 4 | 0.27 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 12 | 0.27 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 12 | 0.27 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 12 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 3 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 3 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 3 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 3 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 3 | 0.27 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 3 | 0.27 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 14 | 0.27 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 14 | 0.27 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 14 | 0.27 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG21 | 11 | 0.27 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG22 | 11 | 0.27 |
| (1,2752) | 1:57:A:MET:HB3 | 1:65:A:THR:HG23 | 11 | 0.27 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG11 | 20 | 0.27 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG12 | 20 | 0.27 |
| (1,2747) | 1:72:A:ARG:HD2 | 1:3:A:VAL:HG13 | 20 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 3 | 0.27 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 3 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 15 | 0.27 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 15 | 0.27 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD21 | 9 | 0.27 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD22 | 9 | 0.27 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD23 | 9 | 0.27 |
| (1,2379) | 1:102:A:GLN:HA | 1:108:A:LEU:HG | 5 | 0.27 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 12 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 7 | 0.27 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 7 | 0.27 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 7 | 0.27 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 18 | 0.27 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 18 | 0.27 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 18 | 0.27 |
| (1,2182) | 1:131:A:ILE:HD11 | 1:87:A:GLU:HG3 | 6 | 0.27 |
| (1,2182) | 1:131:A:ILE:HD12 | 1:87:A:GLU:HG3 | 6 | 0.27 |
| (1,2182) | 1:131:A:ILE:HD13 | 1:87:A:GLU:HG3 | 6 | 0.27 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 14 | 0.27 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 16 | 0.27 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 20 | 0.27 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 15 | 0.27 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 17 | 0.27 |
| (1,1806) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HD3 | 19 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 1 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 1 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 1 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 3 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 3 | 0.27 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 3 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 3 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 3 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 3 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 15 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 15 | 0.27 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 15 | 0.27 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD11 | 3 | 0.27 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD12 | 3 | 0.27 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD13 | 3 | 0.27 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 4 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 13 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 13 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 13 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 17 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 17 | 0.27 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 17 | 0.27 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 11 | 0.27 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 11 | 0.27 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 11 | 0.27 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 3 | 0.27 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 1 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 1 | 0.27 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 1 | 0.27 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 12 | 0.27 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 12 | 0.27 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 12 | 0.27 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 3 | 0.27 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 6 | 0.27 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 17 | 0.27 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 17 | 0.27 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 17 | 0.27 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 10 | 0.27 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 10 | 0.27 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 10 | 0.27 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 1 | 0.27 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 1 | 0.27 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 1 | 0.27 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 3 | 0.27 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 3 | 0.27 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 3 | 0.27 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 15 | 0.27 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 15 | 0.27 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 15 | 0.27 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 17 | 0.27 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 17 | 0.27 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 17 | 0.27 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 19 | 0.27 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 19 | 0.27 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 19 | 0.27 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 7 | 0.27 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 14 | 0.27 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 18 | 0.27 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 6 | 0.27 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 20 | 0.27 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 2 | 0.27 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 7 | 0.27 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 13 | 0.27 |
| (1,500) | 1:8:A:ILE:HA | 1:35:A:GLN:H | 18 | 0.27 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 6 | 0.27 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 6 | 0.27 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 6 | 0.27 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 9 | 0.27 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 19 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 9 | 0.26 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 9 | 0.26 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD1 | 20 | 0.26 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD2 | 20 | 0.26 |
| (1,3890) | 1:71:A:ASN:H | 1:2:A:SER:HB2 | 17 | 0.26 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 12 | 0.26 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 12 | 0.26 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 12 | 0.26 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 8 | 0.26 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 11 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 9 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 9 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 9 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 11 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 11 | 0.26 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 11 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 6 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 6 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 6 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 9 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 9 | 0.26 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 9 | 0.26 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 5 | 0.26 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 5 | 0.26 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 5 | 0.26 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 9 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 11 | 0.26 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 11 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 8 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 8 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 8 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 8 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 8 | 0.26 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 8 | 0.26 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 9 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 9 | 0.26 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 9 | 0.26 |
| (1,3171) | 1:103:A:LEU:HG | 1:107:A:SER:HB3 | 16 | 0.26 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 4 | 0.26 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 4 | 0.26 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 4 | 0.26 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 20 | 0.26 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 20 | 0.26 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 20 | 0.26 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 20 | 0.26 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 20 | 0.26 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 2 | 0.26 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 2 | 0.26 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 2 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 3 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 3 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 3 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 9 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 9 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 9 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 16 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 16 | 0.26 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 16 | 0.26 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 11 | 0.26 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 11 | 0.26 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 11 | 0.26 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG21 | 5 | 0.26 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG22 | 5 | 0.26 |
| (1,2765) | 1:74:A:TYR:HB2 | 1:3:A:VAL:HG23 | 5 | 0.26 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG21 | 6 | 0.26 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG22 | 6 | 0.26 |
| (1,2697) | 1:134:A:ARG:HB2 | 1:132:A:THR:HG23 | 6 | 0.26 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 19 | 0.26 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 19 | 0.26 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 19 | 0.26 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 5 | 0.26 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 5 | 0.26 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 5 | 0.26 |
| (1,2499) | 1:135:A:ILE:HA | 1:135:A:ILE:HG12 | 7 | 0.26 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 7 | 0.26 |
| (1,2356) | 1:62:A:LYS:HA | 1:62:A:LYS:HD2 | 8 | 0.26 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 13 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 13 | 0.26 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 13 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 4 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 15 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 15 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 15 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 15 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 15 | 0.26 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 15 | 0.26 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 8 | 0.26 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 7 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG2 | 7 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG3 | 7 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG2 | 7 | 0.26 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG3 | 7 | 0.26 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 2 | 0.26 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 6 | 0.26 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 7 | 0.26 |
| (1,2001) | 1:11:A:ASN:HD22 | 1:11:A:ASN:HB3 | 19 | 0.26 |
| (1,1806) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HD3 | 5 | 0.26 |
| (1,1806) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HD3 | 7 | 0.26 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 15 | 0.26 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 15 | 0.26 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 15 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 14 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 14 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 14 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 20 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 20 | 0.26 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 20 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 14 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 14 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 14 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 19 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 19 | 0.26 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 19 | 0.26 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 2 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 8 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 8 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 8 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 9 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 9 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 9 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 17 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 17 | 0.26 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 17 | 0.26 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 7 | 0.26 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 10 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 8 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 8 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 8 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 10 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 10 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 10 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 15 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 15 | 0.26 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 15 | 0.26 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 4 | 0.26 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 7 | 0.26 |
| (1,1092) | 1:103:A:LEU:HD21 | 1:111:A:ALA:H | 9 | 0.26 |
| (1,1092) | 1:103:A:LEU:HD22 | 1:111:A:ALA:H | 9 | 0.26 |
| (1,1092) | 1:103:A:LEU:HD23 | 1:111:A:ALA:H | 9 | 0.26 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 16 | 0.26 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 16 | 0.26 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 16 | 0.26 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 18 | 0.26 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 18 | 0.26 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 18 | 0.26 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 3 | 0.26 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 3 | 0.26 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 3 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 5 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 5 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 5 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 8 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 8 | 0.26 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 8 | 0.26 |
| (1,962) | 1:5:A:ILE:HD11 | 1:71:A:ASN:H | 18 | 0.26 |
| (1,962) | 1:5:A:ILE:HD12 | 1:71:A:ASN:H | 18 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,962) | 1:5:A:ILE:HD13 | 1:71:A:ASN:H | 18 | 0.26 |
| (1,933) | 1:47:A:VAL:HG11 | 1:26:A:LEU:H | 8 | 0.26 |
| (1,933) | 1:47:A:VAL:HG12 | 1:26:A:LEU:H | 8 | 0.26 |
| (1,933) | 1:47:A:VAL:HG13 | 1:26:A:LEU:H | 8 | 0.26 |
| (1,871) | 1:52:A:LEU:HG | 1:56:A:GLN:HE22 | 15 | 0.26 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 11 | 0.26 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 11 | 0.26 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 13 | 0.26 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 19 | 0.26 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 2 | 0.26 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 5 | 0.26 |
| (1,500) | 1:83:A:GLY:HA2 | 1:82:A:ASN:HD22 | 8 | 0.26 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 1 | 0.26 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 11 | 0.26 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 11 | 0.26 |
| (1,3951) | 1:135:A:ILE:HD11 | 1:130:A:TYR:HD1 | 14 | 0.25 |
| (1,3951) | 1:135:A:ILE:HD11 | 1:130:A:TYR:HD2 | 14 | 0.25 |
| (1,3951) | 1:135:A:ILE:HD12 | 1:130:A:TYR:HD1 | 14 | 0.25 |
| (1,3951) | 1:135:A:ILE:HD12 | 1:130:A:TYR:HD2 | 14 | 0.25 |
| (1,3951) | 1:135:A:ILE:HD13 | 1:130:A:TYR:HD1 | 14 | 0.25 |
| (1,3951) | 1:135:A:ILE:HD13 | 1:130:A:TYR:HD2 | 14 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD1 | 8 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD2 | 8 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD1 | 8 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD2 | 8 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD1 | 8 | 0.25 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD2 | 8 | 0.25 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 15 | 0.25 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 6 | 0.25 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 6 | 0.25 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 6 | 0.25 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 3 | 0.25 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 3 | 0.25 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 16 | 0.25 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 16 | 0.25 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 16 | 0.25 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 1 | 0.25 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 1 | 0.25 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 1 | 0.25 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 5 | 0.25 |
| (1,3431) | 1:4:A:LYS:HG3 | 1:71:A:ASN:HA | 16 | 0.25 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 14 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 14 | 0.25 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 14 | 0.25 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 16 | 0.25 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 16 | 0.25 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 16 | 0.25 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 6 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 2 | 0.25 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 2 | 0.25 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 19 | 0.25 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 19 | 0.25 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 19 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 8 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 8 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 8 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 8 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 8 | 0.25 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 8 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 14 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 14 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 14 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 16 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 16 | 0.25 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 16 | 0.25 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG21 | 14 | 0.25 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG22 | 14 | 0.25 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG23 | 14 | 0.25 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 12 | 0.25 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 12 | 0.25 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 12 | 0.25 |
| (1,2738) | 1:127:A:ILE:HA | 1:85:A:VAL:HG21 | 1 | 0.25 |
| (1,2738) | 1:127:A:ILE:HA | 1:85:A:VAL:HG22 | 1 | 0.25 |
| (1,2738) | 1:127:A:ILE:HA | 1:85:A:VAL:HG23 | 1 | 0.25 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 13 | 0.25 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 13 | 0.25 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 13 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 19 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 20 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 20 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 20 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 20 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 20 | 0.25 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 20 | 0.25 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 12 | 0.25 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 12 | 0.25 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 12 | 0.25 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 3 | 0.25 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 3 | 0.25 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 3 | 0.25 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 3 | 0.25 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 6 | 0.25 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 8 | 0.25 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 15 | 0.25 |
| (1,2306) | 1:71:A:ASN:H | 1:5:A:ILE:HG13 | 19 | 0.25 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 4 | 0.25 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 15 | 0.25 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 8 | 0.25 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 3 | 0.25 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 3 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 7 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 7 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 7 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 12 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 12 | 0.25 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 12 | 0.25 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 6 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD11 | 14 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD12 | 14 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD13 | 14 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD11 | 14 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD12 | 14 | 0.25 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD13 | 14 | 0.25 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 17 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 17 | 0.25 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 17 | 0.25 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 16 | 0.25 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 16 | 0.25 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 16 | 0.25 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 12 | 0.25 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 12 | 0.25 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 12 | 0.25 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 11 | 0.25 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 11 | 0.25 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 11 | 0.25 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 18 | 0.25 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 7 | 0.25 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 7 | 0.25 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 7 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 3 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 3 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 3 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 11 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 11 | 0.25 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 11 | 0.25 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 17 | 0.25 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 17 | 0.25 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 17 | 0.25 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 18 | 0.25 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 18 | 0.25 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 18 | 0.25 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 2 | 0.25 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 2 | 0.25 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 2 | 0.25 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 2 | 0.25 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 2 | 0.25 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 2 | 0.25 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 8 | 0.25 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 8 | 0.25 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 12 | 0.25 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 7 | 0.25 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 14 | 0.25 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 17 | 0.25 |
| (1,3871) | 1:11:A:ASN:H | 1:7:A:ASP:HB3 | 8 | 0.24 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 20 | 0.24 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 20 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 16 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 3 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 3 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 3 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 15 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 15 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 15 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 20 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 20 | 0.24 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 20 | 0.24 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 5 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 7 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 8 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 16 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 16 | 0.24 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 16 | 0.24 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 3 | 0.24 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 3 | 0.24 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 3 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 20 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 20 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 20 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 20 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 20 | 0.24 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 20 | 0.24 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 17 | 0.24 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 17 | 0.24 |
| (1,3019) | 1:63:A:GLY:HA2 | 1:65:A:THR:HB | 13 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 5 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 5 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 5 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG21 | 17 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG22 | 17 | 0.24 |
| (1,2962) | 1:42:A:ASP:HB3 | 1:50:A:ILE:HG23 | 17 | 0.24 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 14 | 0.24 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 14 | 0.24 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 14 | 0.24 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 4 | 0.24 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 4 | 0.24 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 4 | 0.24 |
| (1,2619) | 1:64:A:GLY:H | 1:65:A:THR:HG21 | 15 | 0.24 |
| (1,2619) | 1:64:A:GLY:H | 1:65:A:THR:HG22 | 15 | 0.24 |
| (1,2619) | 1:64:A:GLY:H | 1:65:A:THR:HG23 | 15 | 0.24 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD11 | 11 | 0.24 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD12 | 11 | 0.24 |
| (1,2583) | 1:92:A:LEU:HG | 1:103:A:LEU:HD13 | 11 | 0.24 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 20 | 0.24 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 20 | 0.24 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 20 | 0.24 |
| (1,2180) | 1:20:A:ALA:HB1 | 1:23:A:LYS:HB2 | 11 | 0.24 |
| (1,2180) | 1:20:A:ALA:HB2 | 1:23:A:LYS:HB2 | 11 | 0.24 |
| (1,2180) | 1:20:A:ALA:HB3 | 1:23:A:LYS:HB2 | 11 | 0.24 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 10 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 13 | 0.24 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 8 | 0.24 |
| (1,1859) | 1:27:A:ILE:HD11 | 1:23:A:LYS:HE2 | 2 | 0.24 |
| (1,1859) | 1:27:A:ILE:HD12 | 1:23:A:LYS:HE2 | 2 | 0.24 |
| (1,1859) | 1:27:A:ILE:HD13 | 1:23:A:LYS:HE2 | 2 | 0.24 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 3 | 0.24 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE2 | 1 | 0.24 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE3 | 1 | 0.24 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 2 | 0.24 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 2 | 0.24 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 2 | 0.24 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 2 | 0.24 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD11 | 15 | 0.24 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD12 | 15 | 0.24 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD13 | 15 | 0.24 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 9 | 0.24 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 6 | 0.24 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 6 | 0.24 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 6 | 0.24 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 16 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 16 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 16 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 16 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 18 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 18 | 0.24 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 18 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 7 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 7 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 7 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 10 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 10 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 10 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 16 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 16 | 0.24 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 16 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 1 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 1 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 1 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 14 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 14 | 0.24 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 14 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 8 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 8 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 8 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 14 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 14 | 0.24 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 14 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 2 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 2 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 2 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 12 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 12 | 0.24 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 12 | 0.24 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 3 | 0.24 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 3 | 0.24 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 3 | 0.24 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 5 | 0.24 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 5 | 0.24 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 5 | 0.24 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 8 | 0.24 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 8 | 0.24 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 8 | 0.24 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 9 | 0.24 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 9 | 0.24 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 9 | 0.24 |
| (1,871) | 1:52:A:LEU:HG | 1:56:A:GLN:HE22 | 4 | 0.24 |
| (1,871) | 1:52:A:LEU:HG | 1:56:A:GLN:HE22 | 9 | 0.24 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 17 | 0.24 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 17 | 0.24 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 17 | 0.24 |
| (1,587) | 1:7:A:ASP:HB3 | 1:11:A:ASN:H | 8 | 0.24 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 20 | 0.24 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 4 | 0.23 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 4 | 0.23 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 4 | 0.23 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 4 | 0.23 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 4 | 0.23 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 4 | 0.23 |
| (1,3871) | 1:11:A:ASN:H | 1:9:A:ASP:HB3 | 2 | 0.23 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 4 | 0.23 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 1 | 0.23 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 1 | 0.23 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 1 | 0.23 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 13 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 11 | 0.23 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 11 | 0.23 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 18 | 0.23 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 18 | 0.23 |
| (1,3635) | 1:76:A:TYR:HB2 | 1:113:A:ALA:HA | 16 | 0.23 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 4 | 0.23 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 4 | 0.23 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 4 | 0.23 |
| (1,3238) | 1:74:A:TYR:HB3 | 1:2:A:SER:HA | 20 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 13 | 0.23 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 13 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 16 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 16 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 16 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 16 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 16 | 0.23 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 16 | 0.23 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 1 | 0.23 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 1 | 0.23 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 1 | 0.23 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 7 | 0.23 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 7 | 0.23 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 7 | 0.23 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 2 | 0.23 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 2 | 0.23 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 2 | 0.23 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 13 | 0.23 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 13 | 0.23 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 13 | 0.23 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 13 | 0.23 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 3 | 0.23 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 3 | 0.23 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 3 | 0.23 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 1 | 0.23 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 1 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 1 | 0.23 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 4 | 0.23 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 4 | 0.23 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 4 | 0.23 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 14 | 0.23 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 14 | 0.23 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 14 | 0.23 |
| (1,2560) | 1:62:A:LYS:HE3 | 1:62:A:LYS:HG2 | 8 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD21 | 15 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD22 | 15 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB2 | 1:60:A:LEU:HD23 | 15 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD21 | 15 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD22 | 15 | 0.23 |
| (1,2546) | 1:56:A:GLN:HB3 | 1:60:A:LEU:HD23 | 15 | 0.23 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 3 | 0.23 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 3 | 0.23 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 3 | 0.23 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 16 | 0.23 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 16 | 0.23 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 16 | 0.23 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 20 | 0.23 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 20 | 0.23 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 20 | 0.23 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 13 | 0.23 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 13 | 0.23 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 13 | 0.23 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 10 | 0.23 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 4 | 0.23 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 4 | 0.23 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 12 | 0.23 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 14 | 0.23 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 14 | 0.23 |
| (1,2001) | 1:82:A:ASN:HD22 | 1:82:A:ASN:HB3 | 12 | 0.23 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 14 | 0.23 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 14 | 0.23 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 14 | 0.23 |
| (1,1859) | 1:27:A:ILE:HD11 | 1:23:A:LYS:HE2 | 17 | 0.23 |
| (1,1859) | 1:27:A:ILE:HD12 | 1:23:A:LYS:HE2 | 17 | 0.23 |
| (1,1859) | 1:27:A:ILE:HD13 | 1:23:A:LYS:HE2 | 17 | 0.23 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 10 | 0.23 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 3 | 0.23 |
| (1,1813) | 1:19:A:TYR:HD1 | 1:23:A:LYS:HE2 | 11 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1813) | 1:19:A:TYR:HD2 | 1:23:A:LYS:HE2 | 11 | 0.23 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA2 | 16 | 0.23 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA3 | 16 | 0.23 |
| (1,1534) | 1:17:A:ILE:HB | 1:17:A:ILE:HA | 10 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 6 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 6 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 6 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 18 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 18 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 18 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 19 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 19 | 0.23 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 19 | 0.23 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 12 | 0.23 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 14 | 0.23 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 13 | 0.23 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 13 | 0.23 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 13 | 0.23 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 8 | 0.23 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 8 | 0.23 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 8 | 0.23 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 5 | 0.23 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 2 | 0.23 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 2 | 0.23 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 2 | 0.23 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 4 | 0.23 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 4 | 0.23 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 4 | 0.23 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 5 | 0.23 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 4 | 0.23 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 4 | 0.23 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 4 | 0.23 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 8 | 0.23 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 8 | 0.23 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 8 | 0.23 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 11 | 0.23 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 11 | 0.23 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 11 | 0.23 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 6 | 0.23 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 6 | 0.23 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 6 | 0.23 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 14 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 14 | 0.23 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 14 | 0.23 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 1 | 0.23 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 1 | 0.23 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 1 | 0.23 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 5 | 0.23 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 5 | 0.23 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 5 | 0.23 |
| (1,971) | 1:60:A:LEU:HD21 | 1:62:A:LYS:H | 7 | 0.23 |
| (1,971) | 1:60:A:LEU:HD22 | 1:62:A:LYS:H | 7 | 0.23 |
| (1,971) | 1:60:A:LEU:HD23 | 1:62:A:LYS:H | 7 | 0.23 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 19 | 0.23 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 19 | 0.23 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 19 | 0.23 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 15 | 0.23 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 15 | 0.23 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 15 | 0.23 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 1 | 0.23 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 1 | 0.23 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 1 | 0.23 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 3 | 0.23 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 13 | 0.23 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 4 | 0.23 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 4 | 0.23 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 10 | 0.23 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 10 | 0.23 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 4 | 0.23 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 4 | 0.23 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 4 | 0.23 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 10 | 0.23 |
| (1,746) | 1:144:A:LEU:HG | 1:144:A:LEU:H | 14 | 0.23 |
| (1,587) | 1:9:A:ASP:HB3 | 1:11:A:ASN:H | 2 | 0.23 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 6 | 0.23 |
| (1,228) | 1:19:A:TYR:HD1 | 1:57:A:MET:H | 19 | 0.23 |
| (1,228) | 1:19:A:TYR:HD2 | 1:57:A:MET:H | 19 | 0.23 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD1 | 5 | 0.22 |
| (1,3937) | 1:20:A:ALA:HB1 | 1:19:A:TYR:HD2 | 5 | 0.22 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD1 | 5 | 0.22 |
| (1,3937) | 1:20:A:ALA:HB2 | 1:19:A:TYR:HD2 | 5 | 0.22 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD1 | 5 | 0.22 |
| (1,3937) | 1:20:A:ALA:HB3 | 1:19:A:TYR:HD2 | 5 | 0.22 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 13 | 0.22 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 13 | 0.22 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 10 | 0.22 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 10 | 0.22 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 10 | 0.22 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD11 | 13 | 0.22 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD12 | 13 | 0.22 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD13 | 13 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 3 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 3 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 3 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 8 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 8 | 0.22 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 8 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 1 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 2 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 6 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 11 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 13 | 0.22 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 19 | 0.22 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 1 | 0.22 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 1 | 0.22 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 1 | 0.22 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 9 | 0.22 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 9 | 0.22 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 9 | 0.22 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 18 | 0.22 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 18 | 0.22 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 18 | 0.22 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 4 | 0.22 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 4 | 0.22 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 8 | 0.22 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 8 | 0.22 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 4 | 0.22 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 4 | 0.22 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 4 | 0.22 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB1 | 16 | 0.22 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB2 | 16 | 0.22 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB3 | 16 | 0.22 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 13 | 0.22 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 13 | 0.22 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 8 | 0.22 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 8 | 0.22 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 8 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 5 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 5 | 0.22 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB1 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB2 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD1 | 1:20:A:ALA:HB3 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB1 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB2 | 5 | 0.22 |
| (1,2874) | 1:19:A:TYR:HD2 | 1:20:A:ALA:HB3 | 5 | 0.22 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 13 | 0.22 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 13 | 0.22 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 13 | 0.22 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 15 | 0.22 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 15 | 0.22 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 15 | 0.22 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 13 | 0.22 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 13 | 0.22 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 13 | 0.22 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 11 | 0.22 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 11 | 0.22 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 11 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 4 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 4 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 4 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 6 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 6 | 0.22 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 6 | 0.22 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 6 | 0.22 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 6 | 0.22 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 6 | 0.22 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD21 | 19 | 0.22 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD22 | 19 | 0.22 |
| (1,2472) | 1:144:A:LEU:H | 1:144:A:LEU:HD23 | 19 | 0.22 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 12 | 0.22 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD21 | 20 | 0.22 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD22 | 20 | 0.22 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD23 | 20 | 0.22 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 14 | 0.22 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 14 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 14 | 0.22 |
| (1,2287) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HG13 | 13 | 0.22 |
| (1,2287) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HG13 | 13 | 0.22 |
| (1,2287) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HG13 | 13 | 0.22 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 2 | 0.22 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 5 | 0.22 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 12 | 0.22 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 19 | 0.22 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 16 | 0.22 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 18 | 0.22 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 5 | 0.22 |
| (1,1813) | 1:19:A:TYR:HD1 | 1:23:A:LYS:HE2 | 7 | 0.22 |
| (1,1813) | 1:19:A:TYR:HD2 | 1:23:A:LYS:HE2 | 7 | 0.22 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 18 | 0.22 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 18 | 0.22 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 18 | 0.22 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD11 | 11 | 0.22 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD12 | 11 | 0.22 |
| (1,1505) | 1:72:A:ARG:HA | 1:73:A:ILE:HD13 | 11 | 0.22 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 4 | 0.22 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 4 | 0.22 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 4 | 0.22 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 7 | 0.22 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 7 | 0.22 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 7 | 0.22 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 11 | 0.22 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 11 | 0.22 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 11 | 0.22 |
| (1,1162) | 1:79:A:ILE:HG21 | 1:111:A:ALA:H | 5 | 0.22 |
| (1,1162) | 1:79:A:ILE:HG22 | 1:111:A:ALA:H | 5 | 0.22 |
| (1,1162) | 1:79:A:ILE:HG23 | 1:111:A:ALA:H | 5 | 0.22 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 7 | 0.22 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 7 | 0.22 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 14 | 0.22 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 3 | 0.22 |
| (1,1140) | 1:144:A:LEU:HD21 | 1:143:A:GLN:H | 20 | 0.22 |
| (1,1140) | 1:144:A:LEU:HD22 | 1:143:A:GLN:H | 20 | 0.22 |
| (1,1140) | 1:144:A:LEU:HD23 | 1:143:A:GLN:H | 20 | 0.22 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 5 | 0.22 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 5 | 0.22 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 5 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 5 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 5 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 19 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 19 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 19 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 20 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 20 | 0.22 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 20 | 0.22 |
| (1,988) | 1:85:A:VAL:HG21 | 1:78:A:ASP:H | 13 | 0.22 |
| (1,988) | 1:85:A:VAL:HG22 | 1:78:A:ASP:H | 13 | 0.22 |
| (1,988) | 1:85:A:VAL:HG23 | 1:78:A:ASP:H | 13 | 0.22 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 4 | 0.22 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 4 | 0.22 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 4 | 0.22 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 18 | 0.22 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 18 | 0.22 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 18 | 0.22 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 1 | 0.22 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 1 | 0.22 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 1 | 0.22 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 16 | 0.22 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 16 | 0.22 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 16 | 0.22 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 8 | 0.22 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 3 | 0.22 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 3 | 0.22 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 3 | 0.22 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 16 | 0.22 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 16 | 0.22 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 16 | 0.22 |
| (1,743) | 1:34:A:LYS:HD2 | 1:34:A:LYS:H | 16 | 0.22 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 11 | 0.22 |
| (1,554) | 1:34:A:LYS:HE2 | 1:4:A:LYS:H | 20 | 0.22 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 13 | 0.22 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 20 | 0.22 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 1 | 0.21 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 1 | 0.21 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 3 | 0.21 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 2 | 0.21 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 2 | 0.21 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 2 | 0.21 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 11 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 11 | 0.21 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 11 | 0.21 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD21 | 17 | 0.21 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD22 | 17 | 0.21 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD23 | 17 | 0.21 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 9 | 0.21 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 11 | 0.21 |
| (1,3696) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG3 | 17 | 0.21 |
| (1,3696) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG3 | 17 | 0.21 |
| (1,3696) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG3 | 17 | 0.21 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 9 | 0.21 |
| (1,3408) | 1:59:A:LEU:HD11 | 1:15:A:SER:HB3 | 9 | 0.21 |
| (1,3408) | 1:59:A:LEU:HD12 | 1:15:A:SER:HB3 | 9 | 0.21 |
| (1,3408) | 1:59:A:LEU:HD13 | 1:15:A:SER:HB3 | 9 | 0.21 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD11 | 18 | 0.21 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD12 | 18 | 0.21 |
| (1,3371) | 1:36:A:LEU:HA | 1:36:A:LEU:HD13 | 18 | 0.21 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 4 | 0.21 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 4 | 0.21 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 4 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 10 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 12 | 0.21 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 12 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 16 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 16 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 16 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 16 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 16 | 0.21 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 16 | 0.21 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 5 | 0.21 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 5 | 0.21 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 5 | 0.21 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 11 | 0.21 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 11 | 0.21 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 11 | 0.21 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 4 | 0.21 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 5 | 0.21 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 5 | 0.21 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 13 | 0.21 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 13 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 12 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 12 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 12 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 15 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 15 | 0.21 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 15 | 0.21 |
| (1,2858) | 1:95:A:ASN:HD21 | 1:91:A:ILE:HG21 | 8 | 0.21 |
| (1,2858) | 1:95:A:ASN:HD21 | 1:91:A:ILE:HG22 | 8 | 0.21 |
| (1,2858) | 1:95:A:ASN:HD21 | 1:91:A:ILE:HG23 | 8 | 0.21 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG21 | 7 | 0.21 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG22 | 7 | 0.21 |
| (1,2832) | 1:136:A:THR:H | 1:135:A:ILE:HG23 | 7 | 0.21 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 10 | 0.21 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 10 | 0.21 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 10 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 5 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 5 | 0.21 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 5 | 0.21 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 19 | 0.21 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 19 | 0.21 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD11 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD12 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB1 | 1:36:A:LEU:HD13 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD11 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD12 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB2 | 1:36:A:LEU:HD13 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD11 | 19 | 0.21 |
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD12 | 19 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2586) | 1:39:A:ALA:HB3 | 1:36:A:LEU:HD13 | 19 | 0.21 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 14 | 0.21 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 14 | 0.21 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 14 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 2 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 2 | 0.21 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 2 | 0.21 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD11 | 4 | 0.21 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD12 | 4 | 0.21 |
| (1,2482) | 1:96:A:HIS:H | 1:103:A:LEU:HD13 | 4 | 0.21 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD21 | 6 | 0.21 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD22 | 6 | 0.21 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD23 | 6 | 0.21 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 20 | 0.21 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 20 | 0.21 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 20 | 0.21 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 13 | 0.21 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 17 | 0.21 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 17 | 0.21 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 17 | 0.21 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD21 | 10 | 0.21 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD22 | 10 | 0.21 |
| (1,2344) | 1:19:A:TYR:H | 1:59:A:LEU:HD23 | 10 | 0.21 |
| (1,2287) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HG13 | 16 | 0.21 |
| (1,2287) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HG13 | 16 | 0.21 |
| (1,2287) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HG13 | 16 | 0.21 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 16 | 0.21 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 16 | 0.21 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 19 | 0.21 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 17 | 0.21 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 17 | 0.21 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 17 | 0.21 |
| (1,1949) | 1:136:A:THR:HG21 | 1:135:A:ILE:HB | 7 | 0.21 |
| (1,1949) | 1:136:A:THR:HG22 | 1:135:A:ILE:HB | 7 | 0.21 |
| (1,1949) | 1:136:A:THR:HG23 | 1:135:A:ILE:HB | 7 | 0.21 |
| (1,1859) | 1:27:A:ILE:HD11 | 1:23:A:LYS:HE2 | 14 | 0.21 |
| (1,1859) | 1:27:A:ILE:HD12 | 1:23:A:LYS:HE2 | 14 | 0.21 |
| (1,1859) | 1:27:A:ILE:HD13 | 1:23:A:LYS:HE2 | 14 | 0.21 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 13 | 0.21 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 13 | 0.21 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 13 | 0.21 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 14 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|----------------|----------|---------------|
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 14 | 0.21 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 14 | 0.21 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 7 | 0.21 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 7 | 0.21 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 7 | 0.21 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 16 | 0.21 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 16 | 0.21 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 16 | 0.21 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 4 | 0.21 |
| (1,1221) | 1:57:A:MET:HB2 | 1:63:A:GLY:H | 8 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 1 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 1 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 1 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 4 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 4 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 4 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 5 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 5 | 0.21 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 5 | 0.21 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 6 | 0.21 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 6 | 0.21 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 6 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 1 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 1 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 1 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 10 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 10 | 0.21 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 10 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 2 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 2 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 2 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 19 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 19 | 0.21 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 19 | 0.21 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 3 | 0.21 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 9 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 7 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 7 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 7 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 17 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 17 | 0.21 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 17 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 15 | 0.21 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 10 | 0.21 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 10 | 0.21 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 10 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD21 | 1:49:A:SER:H | 6 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD22 | 1:49:A:SER:H | 6 | 0.21 |
| (1,1042) | 1:52:A:LEU:HD23 | 1:49:A:SER:H | 6 | 0.21 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 12 | 0.21 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 12 | 0.21 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 12 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 7 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 7 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 7 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 16 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 16 | 0.21 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 16 | 0.21 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 3 | 0.21 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 3 | 0.21 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 3 | 0.21 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 7 | 0.21 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 7 | 0.21 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 7 | 0.21 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 13 | 0.21 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 13 | 0.21 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 13 | 0.21 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 19 | 0.21 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 19 | 0.21 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 19 | 0.21 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 10 | 0.21 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 10 | 0.21 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 10 | 0.21 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 13 | 0.21 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 13 | 0.21 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 13 | 0.21 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 17 | 0.21 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 17 | 0.21 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 17 | 0.21 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 20 | 0.21 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 20 | 0.21 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 20 | 0.21 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 20 | 0.21 |
| (1,774) | 1:72:A:ARG:HB2 | 1:3:A:VAL:H | 20 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 16 | 0.21 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 10 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 5 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 5 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 5 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 6 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 6 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 6 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 15 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 15 | 0.2 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 15 | 0.2 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 18 | 0.2 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 12 | 0.2 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 12 | 0.2 |
| (1,3695) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG2 | 9 | 0.2 |
| (1,3695) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG2 | 9 | 0.2 |
| (1,3695) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG2 | 9 | 0.2 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 6 | 0.2 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 6 | 0.2 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 6 | 0.2 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 9 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 20 | 0.2 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 20 | 0.2 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 13 | 0.2 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 13 | 0.2 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 13 | 0.2 |
| (1,3019) | 1:54:A:ILE:HA | 1:65:A:THR:HB | 15 | 0.2 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 15 | 0.2 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 15 | 0.2 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 15 | 0.2 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 17 | 0.2 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 17 | 0.2 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 17 | 0.2 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 3 | 0.2 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 3 | 0.2 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 17 | 0.2 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 17 | 0.2 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 17 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 6 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 6 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 6 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 18 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 18 | 0.2 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 18 | 0.2 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 19 | 0.2 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 19 | 0.2 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 19 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 9 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 9 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 9 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 19 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 19 | 0.2 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 19 | 0.2 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 9 | 0.2 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 9 | 0.2 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 9 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 8 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 8 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 8 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 18 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 18 | 0.2 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 18 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 1 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 1 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 1 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 10 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 10 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 10 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 11 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 11 | 0.2 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 11 | 0.2 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD21 | 11 | 0.2 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD22 | 11 | 0.2 |
| (1,2483) | 1:56:A:GLN:HE21 | 1:52:A:LEU:HD23 | 11 | 0.2 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD21 | 3 | 0.2 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD22 | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD23 | 3 | 0.2 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 9 | 0.2 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 11 | 0.2 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 19 | 0.2 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 8 | 0.2 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 2 | 0.2 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 19 | 0.2 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 19 | 0.2 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 6 | 0.2 |
| (1,2120) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HB2 | 20 | 0.2 |
| (1,1949) | 1:138:A:LEU:HG | 1:135:A:ILE:HB | 4 | 0.2 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE2 | 3 | 0.2 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE3 | 3 | 0.2 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE2 | 15 | 0.2 |
| (1,1822) | 1:70:A:LYS:HA | 1:70:A:LYS:HE3 | 15 | 0.2 |
| (1,1806) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HD3 | 12 | 0.2 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 5 | 0.2 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 5 | 0.2 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 5 | 0.2 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD11 | 2 | 0.2 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD12 | 2 | 0.2 |
| (1,1357) | 1:123:A:ASP:H | 1:93:A:ILE:HD13 | 2 | 0.2 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 2 | 0.2 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 2 | 0.2 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 2 | 0.2 |
| (1,1221) | 1:57:A:MET:HB2 | 1:63:A:GLY:H | 14 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 5 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 5 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 5 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 15 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 15 | 0.2 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 15 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 5 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 5 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 5 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 8 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 8 | 0.2 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 8 | 0.2 |
| (1,1182) | 1:126:A:LEU:HD21 | 1:127:A:ILE:H | 6 | 0.2 |
| (1,1182) | 1:126:A:LEU:HD22 | 1:127:A:ILE:H | 6 | 0.2 |
| (1,1182) | 1:126:A:LEU:HD23 | 1:127:A:ILE:H | 6 | 0.2 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 19 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 19 | 0.2 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 19 | 0.2 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 20 | 0.2 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 2 | 0.2 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 2 | 0.2 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 2 | 0.2 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 16 | 0.2 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 16 | 0.2 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 16 | 0.2 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 11 | 0.2 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 11 | 0.2 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 11 | 0.2 |
| (1,983) | 1:34:A:LYS:HD2 | 1:37:A:ALA:H | 2 | 0.2 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 9 | 0.2 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 9 | 0.2 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 9 | 0.2 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 16 | 0.2 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 16 | 0.2 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 16 | 0.2 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 17 | 0.2 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 17 | 0.2 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 17 | 0.2 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 8 | 0.2 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 8 | 0.2 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 8 | 0.2 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 3 | 0.2 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 3 | 0.2 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 3 | 0.2 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 16 | 0.2 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 16 | 0.2 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 16 | 0.2 |
| (1,929) | 1:3:A:VAL:HG21 | 1:34:A:LYS:H | 11 | 0.2 |
| (1,929) | 1:3:A:VAL:HG22 | 1:34:A:LYS:H | 11 | 0.2 |
| (1,929) | 1:3:A:VAL:HG23 | 1:34:A:LYS:H | 11 | 0.2 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 10 | 0.2 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 10 | 0.2 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 10 | 0.2 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 14 | 0.2 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 14 | 0.2 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 16 | 0.2 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 16 | 0.2 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 20 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 20 | 0.2 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 20 | 0.2 |
| (1,746) | 1:144:A:LEU:HG | 1:144:A:LEU:H | 4 | 0.2 |
| (1,746) | 1:144:A:LEU:HG | 1:144:A:LEU:H | 11 | 0.2 |
| (1,694) | 1:9:A:ASP:HB3 | 1:35:A:GLN:HE22 | 16 | 0.2 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 9 | 0.2 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 8 | 0.2 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 11 | 0.2 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 2 | 0.19 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 2 | 0.19 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 3 | 0.19 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 3 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 5 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 5 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 5 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 15 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 15 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 15 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 16 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 16 | 0.19 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 16 | 0.19 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 16 | 0.19 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 16 | 0.19 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 7 | 0.19 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 15 | 0.19 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 4 | 0.19 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 12 | 0.19 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 7 | 0.19 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 7 | 0.19 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 7 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 12 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 12 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 12 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 14 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 14 | 0.19 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 14 | 0.19 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 12 | 0.19 |
| (1,3431) | 1:4:A:LYS:HG3 | 1:71:A:ASN:HA | 8 | 0.19 |
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 13 | 0.19 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 13 | 0.19 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 13 | 0.19 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 5 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,3274) | 1:106:A:ALA:HA | 1:72:A:ARG:HD2 | 8 | 0.19 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 4 | 0.19 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 4 | 0.19 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 4 | 0.19 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 10 | 0.19 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 10 | 0.19 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 10 | 0.19 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 9 | 0.19 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 9 | 0.19 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 10 | 0.19 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 10 | 0.19 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 10 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB1 | 1 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB2 | 1 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB3 | 1 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB1 | 2 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB2 | 2 | 0.19 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB3 | 2 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 5 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 5 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 5 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 14 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 14 | 0.19 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 14 | 0.19 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB1 | 1 | 0.19 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB2 | 1 | 0.19 |
| (1,2954) | 1:9:A:ASP:HB3 | 1:20:A:ALA:HB3 | 1 | 0.19 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 7 | 0.19 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 7 | 0.19 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 7 | 0.19 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG21 | 16 | 0.19 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG22 | 16 | 0.19 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG23 | 16 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 1 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 1 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 1 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 12 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 12 | 0.19 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 12 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 4 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 4 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 9 | 0.19 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 9 | 0.19 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 9 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 12 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 12 | 0.19 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 12 | 0.19 |
| (1,2607) | 1:47:A:VAL:H | 1:39:A:ALA:HB1 | 17 | 0.19 |
| (1,2607) | 1:47:A:VAL:H | 1:39:A:ALA:HB2 | 17 | 0.19 |
| (1,2607) | 1:47:A:VAL:H | 1:39:A:ALA:HB3 | 17 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 7 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 15 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 18 | 0.19 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 18 | 0.19 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 15 | 0.19 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 15 | 0.19 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 15 | 0.19 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 12 | 0.19 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 12 | 0.19 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 12 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 5 | 0.19 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 5 | 0.19 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 5 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 13 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 13 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 13 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 18 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 18 | 0.19 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 18 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 4 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 4 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 4 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 10 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 10 | 0.19 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 10 | 0.19 |
| (1,2379) | 1:107:A:SER:HA | 1:108:A:LEU:HG | 1 | 0.19 |
| (1,2367) | 1:72:A:ARG:HA | 1:73:A:ILE:HG12 | 11 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 2 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 2 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 2 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 14 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 14 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 14 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 16 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 16 | 0.19 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 16 | 0.19 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 19 | 0.19 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 20 | 0.19 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 17 | 0.19 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 20 | 0.19 |
| (1,2145) | 1:2:A:SER:HB2 | 1:3:A:VAL:HB | 9 | 0.19 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 3 | 0.19 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 3 | 0.19 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 3 | 0.19 |
| (1,1859) | 1:27:A:ILE:HD11 | 1:23:A:LYS:HE2 | 18 | 0.19 |
| (1,1859) | 1:27:A:ILE:HD12 | 1:23:A:LYS:HE2 | 18 | 0.19 |
| (1,1859) | 1:27:A:ILE:HD13 | 1:23:A:LYS:HE2 | 18 | 0.19 |
| (1,1843) | 1:24:A:SER:HB2 | 1:23:A:LYS:HE2 | 9 | 0.19 |
| (1,1843) | 1:24:A:SER:HB3 | 1:23:A:LYS:HE2 | 9 | 0.19 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD2 | 8 | 0.19 |
| (1,1780) | 1:129:A:LYS:H | 1:134:A:ARG:HD3 | 8 | 0.19 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 1 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 1 | 0.19 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 1 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 8 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 8 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 8 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 9 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 9 | 0.19 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 9 | 0.19 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 9 | 0.19 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD11 | 5 | 0.19 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD12 | 5 | 0.19 |
| (1,1444) | 1:41:A:VAL:HB | 1:68:A:ILE:HD13 | 5 | 0.19 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 15 | 0.19 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 15 | 0.19 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 15 | 0.19 |
| (1,1306) | 1:50:A:ILE:HG21 | 1:53:A:ALA:H | 6 | 0.19 |
| (1,1306) | 1:50:A:ILE:HG22 | 1:53:A:ALA:H | 6 | 0.19 |
| (1,1306) | 1:50:A:ILE:HG23 | 1:53:A:ALA:H | 6 | 0.19 |
| (1,1225) | 1:110:A:ALA:HA | 1:76:A:TYR:H | 17 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 6 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 6 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 6 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 11 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 11 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 11 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 12 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 12 | 0.19 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 12 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 1 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 1 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 1 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 14 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 14 | 0.19 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 20 | 0.19 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 20 | 0.19 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 20 | 0.19 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 20 | 0.19 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 3 | 0.19 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 3 | 0.19 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 3 | 0.19 |
| (1,1067) | 1:68:A:ILE:HD11 | 1:63:A:GLY:H | 20 | 0.19 |
| (1,1067) | 1:68:A:ILE:HD12 | 1:63:A:GLY:H | 20 | 0.19 |
| (1,1067) | 1:68:A:ILE:HD13 | 1:63:A:GLY:H | 20 | 0.19 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 19 | 0.19 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 19 | 0.19 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 19 | 0.19 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 10 | 0.19 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 10 | 0.19 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 10 | 0.19 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 11 | 0.19 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 11 | 0.19 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 11 | 0.19 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 18 | 0.19 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 18 | 0.19 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 18 | 0.19 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 13 | 0.19 |
| (1,866) | 1:20:A:ALA:HB1 | 1:24:A:SER:H | 18 | 0.19 |
| (1,866) | 1:20:A:ALA:HB2 | 1:24:A:SER:H | 18 | 0.19 |
| (1,866) | 1:20:A:ALA:HB3 | 1:24:A:SER:H | 18 | 0.19 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 15 | 0.19 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 15 | 0.19 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 8 | 0.19 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 8 | 0.19 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 8 | 0.19 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 11 | 0.19 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 11 | 0.19 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 11 | 0.19 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 5 | 0.19 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 5 | 0.19 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 5 | 0.19 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 6 | 0.19 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 6 | 0.19 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 6 | 0.19 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 3 | 0.19 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3875) | 1:35:A:GLN:HB2 | 1:8:A:ILE:HG12 | 15 | 0.18 |
| (1,3875) | 1:35:A:GLN:HB2 | 1:8:A:ILE:HG13 | 15 | 0.18 |
| (1,3871) | 1:79:A:ILE:H | 1:80:A:ASP:HB3 | 17 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 7 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 7 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 7 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 19 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 19 | 0.18 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 19 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD1 | 1:3:A:VAL:HG21 | 8 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD1 | 1:3:A:VAL:HG22 | 8 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD1 | 1:3:A:VAL:HG23 | 8 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD2 | 1:3:A:VAL:HG21 | 8 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD2 | 1:3:A:VAL:HG22 | 8 | 0.18 |
| (1,3828) | 1:109:A:PHE:HD2 | 1:3:A:VAL:HG23 | 8 | 0.18 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 14 | 0.18 |
| (1,3791) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 14 | 0.18 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 2 | 0.18 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 5 | 0.18 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 9 | 0.18 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 9 | 0.18 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 18 | 0.18 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 5 | 0.18 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 5 | 0.18 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 5 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 16 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 16 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 16 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 18 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 18 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 18 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 19 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 19 | 0.18 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 19 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 4 | 0.18 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 4 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 4 | 0.18 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 19 | 0.18 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 19 | 0.18 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 19 | 0.18 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 5 | 0.18 |
| (1,3074) | 1:4:A:LYS:HB2 | 1:71:A:ASN:HA | 20 | 0.18 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 10 | 0.18 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 10 | 0.18 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 18 | 0.18 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 18 | 0.18 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 18 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 4 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 4 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 4 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 6 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 6 | 0.18 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 6 | 0.18 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 13 | 0.18 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 13 | 0.18 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 13 | 0.18 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 7 | 0.18 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 7 | 0.18 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 7 | 0.18 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG21 | 8 | 0.18 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG22 | 8 | 0.18 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG23 | 8 | 0.18 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG21 | 3 | 0.18 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG22 | 3 | 0.18 |
| (1,2697) | 1:57:A:MET:HB2 | 1:65:A:THR:HG23 | 3 | 0.18 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 17 | 0.18 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 17 | 0.18 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 17 | 0.18 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 16 | 0.18 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 16 | 0.18 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 16 | 0.18 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 1 | 0.18 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 1 | 0.18 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 1 | 0.18 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 15 | 0.18 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 15 | 0.18 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 15 | 0.18 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD21 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD22 | 2 | 0.18 |
| (1,2472) | 1:145:A:GLU:H | 1:144:A:LEU:HD23 | 2 | 0.18 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD21 | 9 | 0.18 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD22 | 9 | 0.18 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD23 | 9 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 12 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 12 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 12 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 16 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 16 | 0.18 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 16 | 0.18 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 6 | 0.18 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 9 | 0.18 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 18 | 0.18 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 16 | 0.18 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 2 | 0.18 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 13 | 0.18 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 1 | 0.18 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 14 | 0.18 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 18 | 0.18 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 15 | 0.18 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 15 | 0.18 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 15 | 0.18 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 12 | 0.18 |
| (1,1813) | 1:35:A:GLN:HE21 | 1:34:A:LYS:HE2 | 17 | 0.18 |
| (1,1806) | 1:81:A:ASN:HD22 | 1:72:A:ARG:HD3 | 13 | 0.18 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD2 | 14 | 0.18 |
| (1,1792) | 1:133:A:GLY:H | 1:134:A:ARG:HD3 | 14 | 0.18 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA2 | 4 | 0.18 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA3 | 4 | 0.18 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 11 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 7 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 7 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 7 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 12 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 12 | 0.18 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 12 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 13 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 17 | 0.18 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 17 | 0.18 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 3 | 0.18 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 3 | 0.18 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 3 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 10 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 10 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 10 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 20 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 20 | 0.18 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 20 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 13 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 13 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 13 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 16 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 16 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 16 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 19 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 19 | 0.18 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 19 | 0.18 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 9 | 0.18 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 9 | 0.18 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 9 | 0.18 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 10 | 0.18 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 10 | 0.18 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 10 | 0.18 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 18 | 0.18 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 18 | 0.18 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 18 | 0.18 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 20 | 0.18 |
| (1,1140) | 1:144:A:LEU:HD21 | 1:143:A:GLN:H | 9 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1140) | 1:144:A:LEU:HD22 | 1:143:A:GLN:H | 9 | 0.18 |
| (1,1140) | 1:144:A:LEU:HD23 | 1:143:A:GLN:H | 9 | 0.18 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 12 | 0.18 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 12 | 0.18 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 12 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 11 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 11 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 11 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 15 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 15 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 15 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 19 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 19 | 0.18 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 19 | 0.18 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 13 | 0.18 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 16 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 1 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 1 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 1 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 7 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 7 | 0.18 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 7 | 0.18 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 19 | 0.18 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 19 | 0.18 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 19 | 0.18 |
| (1,1043) | 1:8:A:ILE:HG21 | 1:32:A:THR:H | 14 | 0.18 |
| (1,1043) | 1:8:A:ILE:HG22 | 1:32:A:THR:H | 14 | 0.18 |
| (1,1043) | 1:8:A:ILE:HG23 | 1:32:A:THR:H | 14 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 1 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 1 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 1 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 11 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 11 | 0.18 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 11 | 0.18 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 10 | 0.18 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 10 | 0.18 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 10 | 0.18 |
| (1,1021) | 1:92:A:LEU:HD11 | 1:88:A:ASN:HD22 | 1 | 0.18 |
| (1,1021) | 1:92:A:LEU:HD12 | 1:88:A:ASN:HD22 | 1 | 0.18 |
| (1,1021) | 1:92:A:LEU:HD13 | 1:88:A:ASN:HD22 | 1 | 0.18 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 17 | 0.18 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 17 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 17 | 0.18 |
| (1,948) | 1:5:A:ILE:HG21 | 1:70:A:LYS:H | 2 | 0.18 |
| (1,948) | 1:5:A:ILE:HG22 | 1:70:A:LYS:H | 2 | 0.18 |
| (1,948) | 1:5:A:ILE:HG23 | 1:70:A:LYS:H | 2 | 0.18 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 3 | 0.18 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 3 | 0.18 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 3 | 0.18 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 6 | 0.18 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 6 | 0.18 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 6 | 0.18 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 12 | 0.18 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 12 | 0.18 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 12 | 0.18 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 3 | 0.18 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 3 | 0.18 |
| (1,870) | 1:52:A:LEU:HG | 1:56:A:GLN:HE21 | 19 | 0.18 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 8 | 0.18 |
| (1,772) | 1:23:A:LYS:HD2 | 1:23:A:LYS:H | 13 | 0.18 |
| (1,386) | 1:96:A:HIS:HB3 | 1:119:A:ILE:H | 5 | 0.18 |
| (1,386) | 1:96:A:HIS:HB3 | 1:119:A:ILE:H | 6 | 0.18 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 9 | 0.18 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 15 | 0.18 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 8 | 0.17 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 8 | 0.17 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 8 | 0.17 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 2 | 0.17 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 2 | 0.17 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 2 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 1 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 1 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 1 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 8 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 8 | 0.17 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 8 | 0.17 |
| (1,3812) | 1:70:A:LYS:HA | 1:4:A:LYS:HD2 | 2 | 0.17 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 13 | 0.17 |
| (1,3791) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 13 | 0.17 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 6 | 0.17 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 2 | 0.17 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD11 | 8 | 0.17 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD12 | 8 | 0.17 |
| (1,3581) | 1:67:A:ASP:H | 1:68:A:ILE:HD13 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 9 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 9 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 9 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 11 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 11 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 11 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 15 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 15 | 0.17 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 15 | 0.17 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 19 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 9 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 14 | 0.17 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 14 | 0.17 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD11 | 7 | 0.17 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD12 | 7 | 0.17 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD13 | 7 | 0.17 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD11 | 11 | 0.17 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD12 | 11 | 0.17 |
| (1,3183) | 1:88:A:ASN:HB3 | 1:79:A:ILE:HD13 | 11 | 0.17 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD11 | 18 | 0.17 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD12 | 18 | 0.17 |
| (1,3183) | 1:90:A:TYR:HB2 | 1:79:A:ILE:HD13 | 18 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 17 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 17 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 17 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 17 | 0.17 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 17 | 0.17 |
| (1,3128) | 1:24:A:SER:H | 1:22:A:LEU:HA | 4 | 0.17 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 12 | 0.17 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 12 | 0.17 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG21 | 2 | 0.17 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG22 | 2 | 0.17 |
| (1,3040) | 1:18:A:ASP:HB2 | 1:14:A:ILE:HG23 | 2 | 0.17 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB1 | 7 | 0.17 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB2 | 7 | 0.17 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB3 | 7 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG21 | 14 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG22 | 14 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG23 | 14 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG21 | 14 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG22 | 14 | 0.17 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG23 | 14 | 0.17 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 14 | 0.17 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 14 | 0.17 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 14 | 0.17 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 17 | 0.17 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 17 | 0.17 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 17 | 0.17 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 20 | 0.17 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 20 | 0.17 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 20 | 0.17 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD11 | 16 | 0.17 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD12 | 16 | 0.17 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD13 | 16 | 0.17 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD21 | 15 | 0.17 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD22 | 15 | 0.17 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD23 | 15 | 0.17 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 6 | 0.17 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 6 | 0.17 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 6 | 0.17 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 12 | 0.17 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 16 | 0.17 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 7 | 0.17 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 11 | 0.17 |
| (1,2224) | 1:39:A:ALA:H | 1:35:A:GLN:HB3 | 2 | 0.17 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 14 | 0.17 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG2 | 5 | 0.17 |
| (1,2170) | 1:124:A:ARG:HB2 | 1:128:A:GLU:HG3 | 5 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG2 | 5 | 0.17 |
| (1,2170) | 1:124:A:ARG:HB3 | 1:128:A:GLU:HG3 | 5 | 0.17 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 15 | 0.17 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD2 | 14 | 0.17 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD3 | 14 | 0.17 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD2 | 14 | 0.17 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD3 | 14 | 0.17 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD2 | 14 | 0.17 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD3 | 14 | 0.17 |
| (1,1843) | 1:24:A:SER:HB2 | 1:23:A:LYS:HE2 | 20 | 0.17 |
| (1,1843) | 1:24:A:SER:HB3 | 1:23:A:LYS:HE2 | 20 | 0.17 |
| (1,1840) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE2 | 17 | 0.17 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD2 | 13 | 0.17 |
| (1,1792) | 1:132:A:THR:H | 1:134:A:ARG:HD3 | 13 | 0.17 |
| (1,1651) | 1:60:A:LEU:HD11 | 1:56:A:GLN:HA | 3 | 0.17 |
| (1,1651) | 1:60:A:LEU:HD12 | 1:56:A:GLN:HA | 3 | 0.17 |
| (1,1651) | 1:60:A:LEU:HD13 | 1:56:A:GLN:HA | 3 | 0.17 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 11 | 0.17 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 11 | 0.17 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 11 | 0.17 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD11 | 4 | 0.17 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD12 | 4 | 0.17 |
| (1,1511) | 1:3:A:VAL:HA | 1:5:A:ILE:HD13 | 4 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 11 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 11 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 11 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 17 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 17 | 0.17 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 17 | 0.17 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD11 | 14 | 0.17 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD12 | 14 | 0.17 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD13 | 14 | 0.17 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 18 | 0.17 |
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 18 | 0.17 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 18 | 0.17 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 9 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 10 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 10 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 10 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 17 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 17 | 0.17 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 3 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 3 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 3 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 11 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 11 | 0.17 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 11 | 0.17 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 15 | 0.17 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 15 | 0.17 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 15 | 0.17 |
| (1,1163) | 1:27:A:ILE:HD11 | 1:27:A:ILE:H | 11 | 0.17 |
| (1,1163) | 1:27:A:ILE:HD12 | 1:27:A:ILE:H | 11 | 0.17 |
| (1,1163) | 1:27:A:ILE:HD13 | 1:27:A:ILE:H | 11 | 0.17 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 17 | 0.17 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 12 | 0.17 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 12 | 0.17 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 12 | 0.17 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 4 | 0.17 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 4 | 0.17 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 4 | 0.17 |
| (1,1021) | 1:92:A:LEU:HD11 | 1:88:A:ASN:HD22 | 15 | 0.17 |
| (1,1021) | 1:92:A:LEU:HD12 | 1:88:A:ASN:HD22 | 15 | 0.17 |
| (1,1021) | 1:92:A:LEU:HD13 | 1:88:A:ASN:HD22 | 15 | 0.17 |
| (1,1004) | 1:59:A:LEU:HD11 | 1:16:A:SER:H | 8 | 0.17 |
| (1,1004) | 1:59:A:LEU:HD12 | 1:16:A:SER:H | 8 | 0.17 |
| (1,1004) | 1:59:A:LEU:HD13 | 1:16:A:SER:H | 8 | 0.17 |
| (1,988) | 1:85:A:VAL:HG21 | 1:78:A:ASP:H | 15 | 0.17 |
| (1,988) | 1:85:A:VAL:HG22 | 1:78:A:ASP:H | 15 | 0.17 |
| (1,988) | 1:85:A:VAL:HG23 | 1:78:A:ASP:H | 15 | 0.17 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 7 | 0.17 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 7 | 0.17 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 7 | 0.17 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 19 | 0.17 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 19 | 0.17 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 19 | 0.17 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 13 | 0.17 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 13 | 0.17 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 13 | 0.17 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 16 | 0.17 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 16 | 0.17 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 16 | 0.17 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 4 | 0.17 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 4 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 4 | 0.17 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 11 | 0.17 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 11 | 0.17 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 11 | 0.17 |
| (1,866) | 1:27:A:ILE:HG13 | 1:24:A:SER:H | 10 | 0.17 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 20 | 0.17 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 20 | 0.17 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 11 | 0.17 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 6 | 0.17 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 11 | 0.17 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 11 | 0.17 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 19 | 0.17 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 6 | 0.17 |
| (1,528) | 1:48:A:ASN:HB2 | 1:49:A:SER:H | 2 | 0.17 |
| (1,446) | 1:43:A:GLY:HA2 | 1:44:A:ASN:H | 10 | 0.17 |
| (1,386) | 1:117:A:ASN:HA | 1:119:A:ILE:H | 12 | 0.17 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 3 | 0.17 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 12 | 0.17 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 13 | 0.16 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 19 | 0.16 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 19 | 0.16 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD1 | 3 | 0.16 |
| (1,3937) | 1:23:A:LYS:HD2 | 1:19:A:TYR:HD2 | 3 | 0.16 |
| (1,3920) | 1:19:A:TYR:HA | 1:19:A:TYR:HD1 | 1 | 0.16 |
| (1,3920) | 1:19:A:TYR:HA | 1:19:A:TYR:HD2 | 1 | 0.16 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 2 | 0.16 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 2 | 0.16 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 17 | 0.16 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 17 | 0.16 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 17 | 0.16 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 6 | 0.16 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 6 | 0.16 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 6 | 0.16 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 3 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE2 | 14 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG21 | 1:4:A:LYS:HE3 | 14 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE2 | 14 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG22 | 1:4:A:LYS:HE3 | 14 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE2 | 14 | 0.16 |
| (1,3663) | 1:68:A:ILE:HG23 | 1:4:A:LYS:HE3 | 14 | 0.16 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 7 | 0.16 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 7 | 0.16 |
| (1,3405) | 1:121:A:GLN:HE22 | 1:97:A:ILE:HG21 | 14 | 0.16 |
| (1,3405) | 1:121:A:GLN:HE22 | 1:97:A:ILE:HG22 | 14 | 0.16 |
| (1,3405) | 1:121:A:GLN:HE22 | 1:97:A:ILE:HG23 | 14 | 0.16 |
| (1,3287) | 1:14:A:ILE:HG13 | 1:4:A:LYS:HE2 | 10 | 0.16 |
| (1,3287) | 1:14:A:ILE:HG13 | 1:4:A:LYS:HE3 | 10 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD11 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD12 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD11 | 1:119:A:ILE:HD13 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD11 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD12 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD12 | 1:119:A:ILE:HD13 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD11 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD12 | 3 | 0.16 |
| (1,3219) | 1:93:A:ILE:HD13 | 1:119:A:ILE:HD13 | 3 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 19 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 19 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 19 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 19 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 19 | 0.16 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 19 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 12 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 12 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 12 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 12 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 12 | 0.16 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 12 | 0.16 |
| (1,3096) | 1:79:A:ILE:HG21 | 1:80:A:ASP:HA | 1 | 0.16 |
| (1,3096) | 1:79:A:ILE:HG22 | 1:80:A:ASP:HA | 1 | 0.16 |
| (1,3096) | 1:79:A:ILE:HG23 | 1:80:A:ASP:HA | 1 | 0.16 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 14 | 0.16 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 14 | 0.16 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 14 | 0.16 |
| (1,3019) | 1:63:A:GLY:HA2 | 1:65:A:THR:HB | 10 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 6 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 6 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 6 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 13 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 13 | 0.16 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 13 | 0.16 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG21 | 6 | 0.16 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG22 | 6 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG23 | 6 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 11 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 11 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 11 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB1 | 18 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB2 | 18 | 0.16 |
| (1,2904) | 1:3:A:VAL:HA | 1:38:A:ALA:HB3 | 18 | 0.16 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 10 | 0.16 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 10 | 0.16 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 10 | 0.16 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 12 | 0.16 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 12 | 0.16 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 12 | 0.16 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 1 | 0.16 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 1 | 0.16 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 1 | 0.16 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 2 | 0.16 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 2 | 0.16 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 2 | 0.16 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 19 | 0.16 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 19 | 0.16 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 19 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 2 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 2 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 2 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 18 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 18 | 0.16 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 18 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 11 | 0.16 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 11 | 0.16 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 3 | 0.16 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 3 | 0.16 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 3 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD11 | 14 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD12 | 14 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD13 | 14 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD11 | 17 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD12 | 17 | 0.16 |
| (1,2509) | 1:52:A:LEU:HA | 1:52:A:LEU:HD13 | 17 | 0.16 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 1 | 0.16 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 2 | 0.16 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 2 | 0.16 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 2 | 0.16 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 1 | 0.16 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 1 | 0.16 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 1 | 0.16 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 1 | 0.16 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 2 | 0.16 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 8 | 0.16 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 17 | 0.16 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 6 | 0.16 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 13 | 0.16 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 16 | 0.16 |
| (1,2287) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HG13 | 20 | 0.16 |
| (1,2287) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HG13 | 20 | 0.16 |
| (1,2287) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HG13 | 20 | 0.16 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG12 | 4 | 0.16 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG13 | 4 | 0.16 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 10 | 0.16 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 14 | 0.16 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 20 | 0.16 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 9 | 0.16 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 18 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG21 | 1:87:A:GLU:HG3 | 12 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG22 | 1:87:A:GLU:HG3 | 12 | 0.16 |
| (1,2182) | 1:131:A:ILE:HG23 | 1:87:A:GLU:HG3 | 12 | 0.16 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 10 | 0.16 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 5 | 0.16 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 5 | 0.16 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 5 | 0.16 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 20 | 0.16 |
| (1,1840) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE2 | 6 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD21 | 1:56:A:GLN:HA | 9 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD22 | 1:56:A:GLN:HA | 9 | 0.16 |
| (1,1651) | 1:59:A:LEU:HD23 | 1:56:A:GLN:HA | 9 | 0.16 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 8 | 0.16 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 8 | 0.16 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 3 | 0.16 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 1 | 0.16 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 1 | 0.16 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 1 | 0.16 |
| (1,1417) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HA | 14 | 0.16 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD11 | 16 | 0.16 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD12 | 16 | 0.16 |
| (1,1358) | 1:96:A:HIS:H | 1:97:A:ILE:HD13 | 16 | 0.16 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 20 | 0.16 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 20 | 0.16 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 20 | 0.16 |
| (1,1322) | 1:112:A:ASP:HB3 | 1:116:A:ASN:H | 4 | 0.16 |
| (1,1288) | 1:121:A:GLN:HG2 | 1:122:A:THR:H | 10 | 0.16 |
| (1,1238) | 1:59:A:LEU:HD21 | 1:20:A:ALA:H | 13 | 0.16 |
| (1,1238) | 1:59:A:LEU:HD22 | 1:20:A:ALA:H | 13 | 0.16 |
| (1,1238) | 1:59:A:LEU:HD23 | 1:20:A:ALA:H | 13 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 7 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 7 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 7 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 9 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 9 | 0.16 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 9 | 0.16 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 7 | 0.16 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 7 | 0.16 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 7 | 0.16 |
| (1,1177) | 1:79:A:ILE:HD11 | 1:89:A:ASP:H | 12 | 0.16 |
| (1,1177) | 1:79:A:ILE:HD12 | 1:89:A:ASP:H | 12 | 0.16 |
| (1,1177) | 1:79:A:ILE:HD13 | 1:89:A:ASP:H | 12 | 0.16 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 8 | 0.16 |
| (1,1132) | 1:134:A:ARG:HG2 | 1:130:A:TYR:H | 7 | 0.16 |
| (1,1132) | 1:134:A:ARG:HG3 | 1:130:A:TYR:H | 7 | 0.16 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 2 | 0.16 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 2 | 0.16 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 2 | 0.16 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 11 | 0.16 |
| (1,1115) | 1:55:A:LEU:HD21 | 1:8:A:ILE:H | 9 | 0.16 |
| (1,1115) | 1:55:A:LEU:HD22 | 1:8:A:ILE:H | 9 | 0.16 |
| (1,1115) | 1:55:A:LEU:HD23 | 1:8:A:ILE:H | 9 | 0.16 |
| (1,1091) | 1:108:A:LEU:HD21 | 1:104:A:SER:H | 9 | 0.16 |
| (1,1091) | 1:108:A:LEU:HD22 | 1:104:A:SER:H | 9 | 0.16 |
| (1,1091) | 1:108:A:LEU:HD23 | 1:104:A:SER:H | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 12 | 0.16 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 12 | 0.16 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 12 | 0.16 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 2 | 0.16 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 2 | 0.16 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 2 | 0.16 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 18 | 0.16 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 18 | 0.16 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 18 | 0.16 |
| (1,1019) | 1:22:A:LEU:HD21 | 1:52:A:LEU:H | 15 | 0.16 |
| (1,1019) | 1:22:A:LEU:HD22 | 1:52:A:LEU:H | 15 | 0.16 |
| (1,1019) | 1:22:A:LEU:HD23 | 1:52:A:LEU:H | 15 | 0.16 |
| (1,988) | 1:85:A:VAL:HG21 | 1:78:A:ASP:H | 8 | 0.16 |
| (1,988) | 1:85:A:VAL:HG22 | 1:78:A:ASP:H | 8 | 0.16 |
| (1,988) | 1:85:A:VAL:HG23 | 1:78:A:ASP:H | 8 | 0.16 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 2 | 0.16 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 2 | 0.16 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 2 | 0.16 |
| (1,948) | 1:5:A:ILE:HG21 | 1:70:A:LYS:H | 9 | 0.16 |
| (1,948) | 1:5:A:ILE:HG22 | 1:70:A:LYS:H | 9 | 0.16 |
| (1,948) | 1:5:A:ILE:HG23 | 1:70:A:LYS:H | 9 | 0.16 |
| (1,948) | 1:5:A:ILE:HG21 | 1:70:A:LYS:H | 14 | 0.16 |
| (1,948) | 1:5:A:ILE:HG22 | 1:70:A:LYS:H | 14 | 0.16 |
| (1,948) | 1:5:A:ILE:HG23 | 1:70:A:LYS:H | 14 | 0.16 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 5 | 0.16 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 5 | 0.16 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 5 | 0.16 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 12 | 0.16 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 12 | 0.16 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 12 | 0.16 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 17 | 0.16 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 17 | 0.16 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 17 | 0.16 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 20 | 0.16 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 20 | 0.16 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 20 | 0.16 |
| (1,925) | 1:59:A:LEU:HD11 | 1:59:A:LEU:H | 8 | 0.16 |
| (1,925) | 1:59:A:LEU:HD12 | 1:59:A:LEU:H | 8 | 0.16 |
| (1,925) | 1:59:A:LEU:HD13 | 1:59:A:LEU:H | 8 | 0.16 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 8 | 0.16 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 8 | 0.16 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 14 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 14 | 0.16 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 15 | 0.16 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 15 | 0.16 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 19 | 0.16 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 19 | 0.16 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 7 | 0.16 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 7 | 0.16 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 7 | 0.16 |
| (1,774) | 1:72:A:ARG:HB2 | 1:3:A:VAL:H | 2 | 0.16 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 3 | 0.16 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 9 | 0.16 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 5 | 0.16 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 11 | 0.16 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 4 | 0.16 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 15 | 0.16 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 7 | 0.16 |
| (1,97) | 1:144:A:LEU:H | 1:143:A:GLN:H | 7 | 0.16 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 11 | 0.16 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 1 | 0.15 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 15 | 0.15 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 10 | 0.15 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 10 | 0.15 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 10 | 0.15 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 1 | 0.15 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 1 | 0.15 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 1 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 2 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 2 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 2 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 3 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 3 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 3 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 10 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 10 | 0.15 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 10 | 0.15 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 12 | 0.15 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 19 | 0.15 |
| (1,3712) | 1:130:A:TYR:HE1 | 1:137:A:HIS:HB3 | 17 | 0.15 |
| (1,3712) | 1:130:A:TYR:HE2 | 1:137:A:HIS:HB3 | 17 | 0.15 |
| (1,3628) | 1:72:A:ARG:HE | 1:72:A:ARG:HA | 20 | 0.15 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 4 | 0.15 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 15 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 4 | 0.15 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 4 | 0.15 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 4 | 0.15 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 5 | 0.15 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 5 | 0.15 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 5 | 0.15 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 14 | 0.15 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 14 | 0.15 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 14 | 0.15 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD11 | 6 | 0.15 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD12 | 6 | 0.15 |
| (1,3183) | 1:35:A:GLN:HG2 | 1:8:A:ILE:HD13 | 6 | 0.15 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 3 | 0.15 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 3 | 0.15 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 3 | 0.15 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 7 | 0.15 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 7 | 0.15 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 7 | 0.15 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 13 | 0.15 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 13 | 0.15 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 13 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 13 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 13 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 13 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 14 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 14 | 0.15 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 14 | 0.15 |
| (1,2906) | 1:59:A:LEU:HA | 1:14:A:ILE:HG21 | 10 | 0.15 |
| (1,2906) | 1:59:A:LEU:HA | 1:14:A:ILE:HG22 | 10 | 0.15 |
| (1,2906) | 1:59:A:LEU:HA | 1:14:A:ILE:HG23 | 10 | 0.15 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB1 | 15 | 0.15 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB2 | 15 | 0.15 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB3 | 15 | 0.15 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG21 | 10 | 0.15 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG22 | 10 | 0.15 |
| (1,2832) | 1:87:A:GLU:H | 1:131:A:ILE:HG23 | 10 | 0.15 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 19 | 0.15 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 19 | 0.15 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 19 | 0.15 |
| (1,2760) | 1:120:A:ASP:HB2 | 1:118:A:VAL:HG11 | 3 | 0.15 |
| (1,2760) | 1:120:A:ASP:HB2 | 1:118:A:VAL:HG12 | 3 | 0.15 |
| (1,2760) | 1:120:A:ASP:HB2 | 1:118:A:VAL:HG13 | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 1 | 0.15 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 1 | 0.15 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 1 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 3 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 3 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 3 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 7 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 7 | 0.15 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 7 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 8 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 8 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 8 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 19 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 19 | 0.15 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 19 | 0.15 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 7 | 0.15 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 7 | 0.15 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 7 | 0.15 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 12 | 0.15 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 12 | 0.15 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 12 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 2 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 2 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 2 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 3 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 3 | 0.15 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 3 | 0.15 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD11 | 14 | 0.15 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD12 | 14 | 0.15 |
| (1,2515) | 1:93:A:ILE:HA | 1:103:A:LEU:HD13 | 14 | 0.15 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 15 | 0.15 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 15 | 0.15 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 15 | 0.15 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 13 | 0.15 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 13 | 0.15 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 13 | 0.15 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD21 | 8 | 0.15 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD22 | 8 | 0.15 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD23 | 8 | 0.15 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 18 | 0.15 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 18 | 0.15 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 18 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2367) | 1:2:A:SER:HA | 1:73:A:ILE:HG12 | 2 | 0.15 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 3 | 0.15 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 7 | 0.15 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 11 | 0.15 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 15 | 0.15 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 16 | 0.15 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 12 | 0.15 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 17 | 0.15 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 8 | 0.15 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 19 | 0.15 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 4 | 0.15 |
| (1,2182) | 1:131:A:ILE:HD11 | 1:87:A:GLU:HG3 | 17 | 0.15 |
| (1,2182) | 1:131:A:ILE:HD12 | 1:87:A:GLU:HG3 | 17 | 0.15 |
| (1,2182) | 1:131:A:ILE:HD13 | 1:87:A:GLU:HG3 | 17 | 0.15 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 3 | 0.15 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 8 | 0.15 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 13 | 0.15 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 20 | 0.15 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 7 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 1 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 1 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 1 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 16 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 16 | 0.15 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 16 | 0.15 |
| (1,1651) | 1:59:A:LEU:HD21 | 1:56:A:GLN:HA | 4 | 0.15 |
| (1,1651) | 1:59:A:LEU:HD22 | 1:56:A:GLN:HA | 4 | 0.15 |
| (1,1651) | 1:59:A:LEU:HD23 | 1:56:A:GLN:HA | 4 | 0.15 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD11 | 7 | 0.15 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD12 | 7 | 0.15 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD13 | 7 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 16 | 0.15 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 16 | 0.15 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 18 | 0.15 |
| (1,1328) | 1:97:A:ILE:HG21 | 1:121:A:GLN:H | 5 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1328) | 1:97:A:ILE:HG22 | 1:121:A:GLN:H | 5 | 0.15 |
| (1,1328) | 1:97:A:ILE:HG23 | 1:121:A:GLN:H | 5 | 0.15 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 13 | 0.15 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 15 | 0.15 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 15 | 0.15 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 15 | 0.15 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 15 | 0.15 |
| (1,1205) | 1:97:A:ILE:HD11 | 1:98:A:ASN:H | 6 | 0.15 |
| (1,1205) | 1:97:A:ILE:HD12 | 1:98:A:ASN:H | 6 | 0.15 |
| (1,1205) | 1:97:A:ILE:HD13 | 1:98:A:ASN:H | 6 | 0.15 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 6 | 0.15 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 6 | 0.15 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 6 | 0.15 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 13 | 0.15 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 13 | 0.15 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 13 | 0.15 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 3 | 0.15 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 3 | 0.15 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 3 | 0.15 |
| (1,1132) | 1:134:A:ARG:HG2 | 1:130:A:TYR:H | 5 | 0.15 |
| (1,1132) | 1:134:A:ARG:HG3 | 1:130:A:TYR:H | 5 | 0.15 |
| (1,1132) | 1:131:A:ILE:HG12 | 1:130:A:TYR:H | 12 | 0.15 |
| (1,1122) | 1:91:A:ILE:HG21 | 1:94:A:CYS:H | 6 | 0.15 |
| (1,1122) | 1:91:A:ILE:HG22 | 1:94:A:CYS:H | 6 | 0.15 |
| (1,1122) | 1:91:A:ILE:HG23 | 1:94:A:CYS:H | 6 | 0.15 |
| (1,1097) | 1:103:A:LEU:HD21 | 1:112:A:ASP:H | 19 | 0.15 |
| (1,1097) | 1:103:A:LEU:HD22 | 1:112:A:ASP:H | 19 | 0.15 |
| (1,1097) | 1:103:A:LEU:HD23 | 1:112:A:ASP:H | 19 | 0.15 |
| (1,1056) | 1:122:A:THR:HG21 | 1:114:A:ASP:H | 13 | 0.15 |
| (1,1056) | 1:122:A:THR:HG22 | 1:114:A:ASP:H | 13 | 0.15 |
| (1,1056) | 1:122:A:THR:HG23 | 1:114:A:ASP:H | 13 | 0.15 |
| (1,1024) | 1:118:A:VAL:HG21 | 1:116:A:ASN:HD21 | 12 | 0.15 |
| (1,1024) | 1:118:A:VAL:HG22 | 1:116:A:ASN:HD21 | 12 | 0.15 |
| (1,1024) | 1:118:A:VAL:HG23 | 1:116:A:ASN:HD21 | 12 | 0.15 |
| (1,1023) | 1:65:A:THR:HG21 | 1:65:A:THR:H | 10 | 0.15 |
| (1,1023) | 1:65:A:THR:HG22 | 1:65:A:THR:H | 10 | 0.15 |
| (1,1023) | 1:65:A:THR:HG23 | 1:65:A:THR:H | 10 | 0.15 |
| (1,1022) | 1:79:A:ILE:HG21 | 1:81:A:ASN:H | 6 | 0.15 |
| (1,1022) | 1:79:A:ILE:HG22 | 1:81:A:ASN:H | 6 | 0.15 |
| (1,1022) | 1:79:A:ILE:HG23 | 1:81:A:ASN:H | 6 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD11 | 1:16:A:SER:H | 9 | 0.15 |
| (1,1004) | 1:59:A:LEU:HD12 | 1:16:A:SER:H | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|----------------|----------|---------------|
| (1,1004) | 1:59:A:LEU:HD13 | 1:16:A:SER:H | 9 | 0.15 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 12 | 0.15 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 12 | 0.15 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 12 | 0.15 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 11 | 0.15 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 11 | 0.15 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 11 | 0.15 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 19 | 0.15 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 19 | 0.15 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 19 | 0.15 |
| (1,962) | 1:73:A:ILE:HD11 | 1:71:A:ASN:H | 6 | 0.15 |
| (1,962) | 1:73:A:ILE:HD12 | 1:71:A:ASN:H | 6 | 0.15 |
| (1,962) | 1:73:A:ILE:HD13 | 1:71:A:ASN:H | 6 | 0.15 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 18 | 0.15 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 18 | 0.15 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 20 | 0.15 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 20 | 0.15 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 11 | 0.15 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 11 | 0.15 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 9 | 0.15 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 9 | 0.15 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 9 | 0.15 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 9 | 0.15 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 17 | 0.15 |
| (1,772) | 1:23:A:LYS:HD2 | 1:23:A:LYS:H | 14 | 0.15 |
| (1,753) | 1:129:A:LYS:HD2 | 1:128:A:GLU:H | 8 | 0.15 |
| (1,753) | 1:129:A:LYS:HD3 | 1:128:A:GLU:H | 8 | 0.15 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 5 | 0.15 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 8 | 0.15 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 1 | 0.15 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 2 | 0.15 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 4 | 0.15 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 15 | 0.15 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 5 | 0.15 |
| (1,486) | 1:123:A:ASP:HB3 | 1:124:A:ARG:H | 2 | 0.15 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 4 | 0.14 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 5 | 0.14 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 6 | 0.14 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 14 | 0.14 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 10 | 0.14 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 10 | 0.14 |
| (1,3871) | 1:21:A:ILE:H | 1:9:A:ASP:HB3 | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 3 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 3 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 3 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 7 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 7 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 7 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 9 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 9 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 9 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 16 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 16 | 0.14 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 16 | 0.14 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 18 | 0.14 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 18 | 0.14 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 18 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 5 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 5 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 5 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 12 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 12 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 12 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 15 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 15 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 15 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 18 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 18 | 0.14 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 18 | 0.14 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG2 | 19 | 0.14 |
| (1,3805) | 1:125:A:ILE:HG12 | 1:128:A:GLU:HG3 | 19 | 0.14 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 1 | 0.14 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD21 | 9 | 0.14 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD22 | 9 | 0.14 |
| (1,3758) | 1:102:A:GLN:HG3 | 1:108:A:LEU:HD23 | 9 | 0.14 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 17 | 0.14 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 7 | 0.14 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 13 | 0.14 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 17 | 0.14 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 19 | 0.14 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 20 | 0.14 |
| (1,3696) | 1:108:A:LEU:HD21 | 1:102:A:GLN:HG3 | 9 | 0.14 |
| (1,3696) | 1:108:A:LEU:HD22 | 1:102:A:GLN:HG3 | 9 | 0.14 |
| (1,3696) | 1:108:A:LEU:HD23 | 1:102:A:GLN:HG3 | 9 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3675) | 1:19:A:TYR:HA | 1:8:A:ILE:HB | 20 | 0.14 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 3 | 0.14 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 3 | 0.14 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 3 | 0.14 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 10 | 0.14 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 10 | 0.14 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 10 | 0.14 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 7 | 0.14 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 18 | 0.14 |
| (1,3457) | 1:74:A:TYR:HB3 | 1:75:A:THR:HA | 16 | 0.14 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG21 | 4 | 0.14 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG22 | 4 | 0.14 |
| (1,3404) | 1:97:A:ILE:HA | 1:119:A:ILE:HG23 | 4 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG21 | 1:41:A:VAL:HB | 3 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG22 | 1:41:A:VAL:HB | 3 | 0.14 |
| (1,3337) | 1:5:A:ILE:HG23 | 1:41:A:VAL:HB | 3 | 0.14 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 7 | 0.14 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 7 | 0.14 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 7 | 0.14 |
| (1,3242) | 1:144:A:LEU:H | 1:144:A:LEU:HA | 19 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 10 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 10 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 10 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 10 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 10 | 0.14 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 10 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HA | 3 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HA | 3 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HA | 3 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HA | 14 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HA | 14 | 0.14 |
| (1,3096) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HA | 14 | 0.14 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 3 | 0.14 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 3 | 0.14 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 3 | 0.14 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 15 | 0.14 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 15 | 0.14 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 15 | 0.14 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 15 | 0.14 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 15 | 0.14 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG21 | 17 | 0.14 |
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG22 | 17 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,3040) | 1:6:A:GLY:HA2 | 1:14:A:ILE:HG23 | 17 | 0.14 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB1 | 9 | 0.14 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB2 | 9 | 0.14 |
| (1,2980) | 1:21:A:ILE:HB | 1:20:A:ALA:HB3 | 9 | 0.14 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 15 | 0.14 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 15 | 0.14 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 15 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 8 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 19 | 0.14 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE1 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE2 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE3 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE1 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE2 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE3 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE1 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE2 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE3 | 8 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE1 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE2 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE3 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE1 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE2 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE3 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE1 | 19 | 0.14 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE2 | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE3 | 19 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB1 | 19 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB2 | 19 | 0.14 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB3 | 19 | 0.14 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 7 | 0.14 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 7 | 0.14 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 7 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB1 | 1:31:A:LEU:HD11 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB1 | 1:31:A:LEU:HD12 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB1 | 1:31:A:LEU:HD13 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB2 | 1:31:A:LEU:HD11 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB2 | 1:31:A:LEU:HD12 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB2 | 1:31:A:LEU:HD13 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB3 | 1:31:A:LEU:HD11 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB3 | 1:31:A:LEU:HD12 | 8 | 0.14 |
| (1,2789) | 1:39:A:ALA:HB3 | 1:31:A:LEU:HD13 | 8 | 0.14 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 16 | 0.14 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 16 | 0.14 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 16 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 7 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 7 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 7 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 18 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 18 | 0.14 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 18 | 0.14 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 6 | 0.14 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 6 | 0.14 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 6 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 16 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 16 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 16 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 20 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 20 | 0.14 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 20 | 0.14 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 7 | 0.14 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 7 | 0.14 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 7 | 0.14 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB1 | 8 | 0.14 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB2 | 8 | 0.14 |
| (1,2641) | 1:115:A:GLY:H | 1:113:A:ALA:HB3 | 8 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 4 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 4 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 14 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 14 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 14 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 16 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 16 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 16 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 19 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 19 | 0.14 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 19 | 0.14 |
| (1,2560) | 1:62:A:LYS:HE2 | 1:62:A:LYS:HG2 | 2 | 0.14 |
| (1,2544) | 1:62:A:LYS:HE2 | 1:60:A:LEU:HD21 | 5 | 0.14 |
| (1,2544) | 1:62:A:LYS:HE2 | 1:60:A:LEU:HD22 | 5 | 0.14 |
| (1,2544) | 1:62:A:LYS:HE2 | 1:60:A:LEU:HD23 | 5 | 0.14 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD11 | 8 | 0.14 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD12 | 8 | 0.14 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD13 | 8 | 0.14 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD11 | 8 | 0.14 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD12 | 8 | 0.14 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD13 | 8 | 0.14 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD21 | 9 | 0.14 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD22 | 9 | 0.14 |
| (1,2484) | 1:56:A:GLN:HE22 | 1:60:A:LEU:HD23 | 9 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD21 | 3 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD22 | 3 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD23 | 3 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD21 | 8 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD22 | 8 | 0.14 |
| (1,2455) | 1:143:A:GLN:H | 1:144:A:LEU:HD23 | 8 | 0.14 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD21 | 4 | 0.14 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD22 | 4 | 0.14 |
| (1,2449) | 1:130:A:TYR:H | 1:126:A:LEU:HD23 | 4 | 0.14 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 10 | 0.14 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 10 | 0.14 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 10 | 0.14 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 19 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 5 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 5 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 5 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 5 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 5 | 0.14 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 5 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 3 | 0.14 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 7 | 0.14 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG12 | 3 | 0.14 |
| (1,2278) | 1:57:A:MET:HB2 | 1:54:A:ILE:HG13 | 3 | 0.14 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 5 | 0.14 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 6 | 0.14 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 17 | 0.14 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG12 | 10 | 0.14 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG13 | 10 | 0.14 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 16 | 0.14 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 16 | 0.14 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 16 | 0.14 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 1 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 7 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 7 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 7 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 18 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 18 | 0.14 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 18 | 0.14 |
| (1,1859) | 1:60:A:LEU:HD21 | 1:62:A:LYS:HE2 | 7 | 0.14 |
| (1,1859) | 1:60:A:LEU:HD22 | 1:62:A:LYS:HE2 | 7 | 0.14 |
| (1,1859) | 1:60:A:LEU:HD23 | 1:62:A:LYS:HE2 | 7 | 0.14 |
| (1,1843) | 1:57:A:MET:HA | 1:62:A:LYS:HE2 | 17 | 0.14 |
| (1,1725) | 1:47:A:VAL:HG21 | 1:39:A:ALA:HA | 11 | 0.14 |
| (1,1725) | 1:47:A:VAL:HG22 | 1:39:A:ALA:HA | 11 | 0.14 |
| (1,1725) | 1:47:A:VAL:HG23 | 1:39:A:ALA:HA | 11 | 0.14 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD11 | 2 | 0.14 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD12 | 2 | 0.14 |
| (1,1510) | 1:72:A:ARG:HA | 1:5:A:ILE:HD13 | 2 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 4 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 4 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 4 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 14 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 14 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 14 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD11 | 16 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD12 | 16 | 0.14 |
| (1,1489) | 1:70:A:LYS:H | 1:5:A:ILE:HD13 | 16 | 0.14 |
| (1,1417) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HA | 1 | 0.14 |
| (1,1417) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HA | 19 | 0.14 |
| (1,1408) | 1:82:A:ASN:HB3 | 1:84:A:ILE:HD11 | 7 | 0.14 |
| (1,1408) | 1:82:A:ASN:HB3 | 1:84:A:ILE:HD12 | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1408) | 1:82:A:ASN:HB3 | 1:84:A:ILE:HD13 | 7 | 0.14 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD11 | 10 | 0.14 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD12 | 10 | 0.14 |
| (1,1357) | 1:90:A:TYR:H | 1:93:A:ILE:HD13 | 10 | 0.14 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 12 | 0.14 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 12 | 0.14 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 12 | 0.14 |
| (1,1226) | 1:68:A:ILE:HD11 | 1:58:A:TYR:H | 12 | 0.14 |
| (1,1226) | 1:68:A:ILE:HD12 | 1:58:A:TYR:H | 12 | 0.14 |
| (1,1226) | 1:68:A:ILE:HD13 | 1:58:A:TYR:H | 12 | 0.14 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 17 | 0.14 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 20 | 0.14 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 20 | 0.14 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 20 | 0.14 |
| (1,1205) | 1:97:A:ILE:HD11 | 1:98:A:ASN:H | 17 | 0.14 |
| (1,1205) | 1:97:A:ILE:HD12 | 1:98:A:ASN:H | 17 | 0.14 |
| (1,1205) | 1:97:A:ILE:HD13 | 1:98:A:ASN:H | 17 | 0.14 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 20 | 0.14 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 20 | 0.14 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 20 | 0.14 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 19 | 0.14 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 19 | 0.14 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 19 | 0.14 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 17 | 0.14 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 17 | 0.14 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 17 | 0.14 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 20 | 0.14 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 20 | 0.14 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 20 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD21 | 1:143:A:GLN:H | 3 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD22 | 1:143:A:GLN:H | 3 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD23 | 1:143:A:GLN:H | 3 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD21 | 1:143:A:GLN:H | 8 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD22 | 1:143:A:GLN:H | 8 | 0.14 |
| (1,1140) | 1:144:A:LEU:HD23 | 1:143:A:GLN:H | 8 | 0.14 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 3 | 0.14 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 3 | 0.14 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 3 | 0.14 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 17 | 0.14 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 17 | 0.14 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 17 | 0.14 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 13 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|---------------|----------|---------------|
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 13 | 0.14 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 13 | 0.14 |
| (1,970) | 1:70:A:LYS:HD3 | 1:71:A:ASN:H | 7 | 0.14 |
| (1,948) | 1:5:A:ILE:HG21 | 1:70:A:LYS:H | 17 | 0.14 |
| (1,948) | 1:5:A:ILE:HG22 | 1:70:A:LYS:H | 17 | 0.14 |
| (1,948) | 1:5:A:ILE:HG23 | 1:70:A:LYS:H | 17 | 0.14 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 6 | 0.14 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 6 | 0.14 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 6 | 0.14 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 7 | 0.14 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 7 | 0.14 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 7 | 0.14 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 18 | 0.14 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 18 | 0.14 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 18 | 0.14 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 19 | 0.14 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 19 | 0.14 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 19 | 0.14 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 4 | 0.14 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 4 | 0.14 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 12 | 0.14 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 12 | 0.14 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 5 | 0.14 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 5 | 0.14 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 5 | 0.14 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 12 | 0.14 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 14 | 0.14 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 19 | 0.14 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 18 | 0.14 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 18 | 0.14 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 18 | 0.14 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 8 | 0.14 |
| (1,753) | 1:124:A:ARG:HB2 | 1:128:A:GLU:H | 13 | 0.14 |
| (1,753) | 1:124:A:ARG:HB3 | 1:128:A:GLU:H | 13 | 0.14 |
| (1,753) | 1:129:A:LYS:HD2 | 1:128:A:GLU:H | 15 | 0.14 |
| (1,753) | 1:129:A:LYS:HD3 | 1:128:A:GLU:H | 15 | 0.14 |
| (1,746) | 1:144:A:LEU:HG | 1:144:A:LEU:H | 15 | 0.14 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 4 | 0.14 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 15 | 0.14 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 16 | 0.14 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 17 | 0.14 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 10 | 0.14 |
| (1,581) | 1:94:A:CYS:HB2 | 1:91:A:ILE:H | 4 | 0.14 |
| (1,358) | 1:24:A:SER:HB2 | 1:28:A:ASN:HD22 | 14 | 0.14 |
| (1,358) | 1:24:A:SER:HB3 | 1:28:A:ASN:HD22 | 14 | 0.14 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 3 | 0.13 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 9 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 19 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 19 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 19 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 19 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 19 | 0.13 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 19 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 11 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 11 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 11 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 13 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 13 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 13 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 14 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 14 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 14 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 16 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 16 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 16 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 20 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 20 | 0.13 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 20 | 0.13 |
| (1,3797) | 1:93:A:ILE:H | 1:79:A:ILE:HB | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB2 | 1:108:A:LEU:HD11 | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB2 | 1:108:A:LEU:HD12 | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB2 | 1:108:A:LEU:HD13 | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB3 | 1:108:A:LEU:HD11 | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB3 | 1:108:A:LEU:HD12 | 16 | 0.13 |
| (1,3753) | 1:109:A:PHE:HB3 | 1:108:A:LEU:HD13 | 16 | 0.13 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 16 | 0.13 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 7 | 0.13 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 7 | 0.13 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 7 | 0.13 |
| (1,3337) | 1:5:A:ILE:HG21 | 1:41:A:VAL:HB | 5 | 0.13 |
| (1,3337) | 1:5:A:ILE:HG22 | 1:41:A:VAL:HB | 5 | 0.13 |
| (1,3337) | 1:5:A:ILE:HG23 | 1:41:A:VAL:HB | 5 | 0.13 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 18 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 17 | 0.13 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 17 | 0.13 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 17 | 0.13 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 17 | 0.13 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 17 | 0.13 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 17 | 0.13 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD11 | 20 | 0.13 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD12 | 20 | 0.13 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD13 | 20 | 0.13 |
| (1,3096) | 1:79:A:ILE:HG21 | 1:80:A:ASP:HA | 15 | 0.13 |
| (1,3096) | 1:79:A:ILE:HG22 | 1:80:A:ASP:HA | 15 | 0.13 |
| (1,3096) | 1:79:A:ILE:HG23 | 1:80:A:ASP:HA | 15 | 0.13 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB1 | 14 | 0.13 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB2 | 14 | 0.13 |
| (1,2999) | 1:50:A:ILE:HG12 | 1:53:A:ALA:HB3 | 14 | 0.13 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB1 | 17 | 0.13 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB2 | 17 | 0.13 |
| (1,2954) | 1:23:A:LYS:HE2 | 1:20:A:ALA:HB3 | 17 | 0.13 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG21 | 16 | 0.13 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG22 | 16 | 0.13 |
| (1,2942) | 1:86:A:ASP:HB2 | 1:131:A:ILE:HG23 | 16 | 0.13 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG21 | 11 | 0.13 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG22 | 11 | 0.13 |
| (1,2830) | 1:66:A:SER:H | 1:54:A:ILE:HG23 | 11 | 0.13 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 14 | 0.13 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 14 | 0.13 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 14 | 0.13 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 15 | 0.13 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 15 | 0.13 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 15 | 0.13 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 17 | 0.13 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 17 | 0.13 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 17 | 0.13 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 14 | 0.13 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 14 | 0.13 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 14 | 0.13 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 15 | 0.13 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 15 | 0.13 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 15 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 17 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 17 | 0.13 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 17 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 15 | 0.13 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 15 | 0.13 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 15 | 0.13 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 13 | 0.13 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 13 | 0.13 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 13 | 0.13 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG21 | 3 | 0.13 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG22 | 3 | 0.13 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG23 | 3 | 0.13 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 17 | 0.13 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 17 | 0.13 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 17 | 0.13 |
| (1,2560) | 1:62:A:LYS:HE2 | 1:62:A:LYS:HG2 | 5 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 3 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 3 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 3 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG11 | 20 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG12 | 20 | 0.13 |
| (1,2550) | 1:40:A:ASP:HB3 | 1:47:A:VAL:HG13 | 20 | 0.13 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 18 | 0.13 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 18 | 0.13 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 18 | 0.13 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 14 | 0.13 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 14 | 0.13 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 14 | 0.13 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD21 | 18 | 0.13 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD22 | 18 | 0.13 |
| (1,2449) | 1:59:A:LEU:H | 1:60:A:LEU:HD23 | 18 | 0.13 |
| (1,2400) | 1:94:A:CYS:HB3 | 1:124:A:ARG:HG2 | 4 | 0.13 |
| (1,2400) | 1:94:A:CYS:HB3 | 1:124:A:ARG:HG2 | 12 | 0.13 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 4 | 0.13 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 5 | 0.13 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 10 | 0.13 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 12 | 0.13 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 4 | 0.13 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 4 | 0.13 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 4 | 0.13 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 3 | 0.13 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 3 | 0.13 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 3 | 0.13 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 3 | 0.13 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 3 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 3 | 0.13 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 7 | 0.13 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 20 | 0.13 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 1 | 0.13 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 7 | 0.13 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 9 | 0.13 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 18 | 0.13 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG12 | 5 | 0.13 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG13 | 5 | 0.13 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 12 | 0.13 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 12 | 0.13 |
| (1,2145) | 1:37:A:ALA:HA | 1:3:A:VAL:HB | 5 | 0.13 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 14 | 0.13 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 14 | 0.13 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 14 | 0.13 |
| (1,1841) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE3 | 14 | 0.13 |
| (1,1840) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE2 | 7 | 0.13 |
| (1,1840) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HE2 | 13 | 0.13 |
| (1,1797) | 1:62:A:LYS:H | 1:62:A:LYS:HE2 | 9 | 0.13 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 3 | 0.13 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 9 | 0.13 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 9 | 0.13 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 9 | 0.13 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 10 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 11 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 20 | 0.13 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 20 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1417) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HA | 2 | 0.13 |
| (1,1388) | 1:103:A:LEU:HA | 1:107:A:SER:HB3 | 11 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD1 | 1:68:A:ILE:HD11 | 10 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD1 | 1:68:A:ILE:HD12 | 10 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD1 | 1:68:A:ILE:HD13 | 10 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD2 | 1:68:A:ILE:HD11 | 10 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD2 | 1:68:A:ILE:HD12 | 10 | 0.13 |
| (1,1383) | 1:58:A:TYR:HD2 | 1:68:A:ILE:HD13 | 10 | 0.13 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 15 | 0.13 |
| (1,1288) | 1:121:A:GLN:HG3 | 1:122:A:THR:H | 3 | 0.13 |
| (1,1288) | 1:121:A:GLN:HG2 | 1:122:A:THR:H | 11 | 0.13 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 17 | 0.13 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 18 | 0.13 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 6 | 0.13 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 9 | 0.13 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 10 | 0.13 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 18 | 0.13 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 2 | 0.13 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 2 | 0.13 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 2 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 5 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 5 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 5 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 11 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 11 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 11 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 20 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 20 | 0.13 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 20 | 0.13 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 11 | 0.13 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 11 | 0.13 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 11 | 0.13 |
| (1,1141) | 1:144:A:LEU:HG | 1:143:A:GLN:H | 10 | 0.13 |
| (1,1137) | 1:97:A:ILE:HG21 | 1:96:A:HIS:H | 13 | 0.13 |
| (1,1137) | 1:97:A:ILE:HG22 | 1:96:A:HIS:H | 13 | 0.13 |
| (1,1137) | 1:97:A:ILE:HG23 | 1:96:A:HIS:H | 13 | 0.13 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 14 | 0.13 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 14 | 0.13 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 14 | 0.13 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 12 | 0.13 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 12 | 0.13 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 12 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1004) | 1:59:A:LEU:HD11 | 1:16:A:SER:H | 19 | 0.13 |
| (1,1004) | 1:59:A:LEU:HD12 | 1:16:A:SER:H | 19 | 0.13 |
| (1,1004) | 1:59:A:LEU:HD13 | 1:16:A:SER:H | 19 | 0.13 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 15 | 0.13 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 15 | 0.13 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 15 | 0.13 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 20 | 0.13 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 20 | 0.13 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 20 | 0.13 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 11 | 0.13 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 11 | 0.13 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 11 | 0.13 |
| (1,977) | 1:132:A:THR:HG21 | 1:131:A:ILE:H | 3 | 0.13 |
| (1,977) | 1:132:A:THR:HG22 | 1:131:A:ILE:H | 3 | 0.13 |
| (1,977) | 1:132:A:THR:HG23 | 1:131:A:ILE:H | 3 | 0.13 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 5 | 0.13 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 5 | 0.13 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 5 | 0.13 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 10 | 0.13 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 10 | 0.13 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 10 | 0.13 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 9 | 0.13 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 9 | 0.13 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 9 | 0.13 |
| (1,909) | 1:73:A:ILE:HD11 | 1:73:A:ILE:H | 10 | 0.13 |
| (1,909) | 1:73:A:ILE:HD12 | 1:73:A:ILE:H | 10 | 0.13 |
| (1,909) | 1:73:A:ILE:HD13 | 1:73:A:ILE:H | 10 | 0.13 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 15 | 0.13 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 15 | 0.13 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 15 | 0.13 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 10 | 0.13 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 10 | 0.13 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 13 | 0.13 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 13 | 0.13 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 16 | 0.13 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 16 | 0.13 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 10 | 0.13 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 10 | 0.13 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 10 | 0.13 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 15 | 0.13 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 15 | 0.13 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 15 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 19 | 0.13 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 19 | 0.13 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 19 | 0.13 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 2 | 0.13 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 6 | 0.13 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 15 | 0.13 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 20 | 0.13 |
| (1,753) | 1:124:A:ARG:HB2 | 1:128:A:GLU:H | 17 | 0.13 |
| (1,753) | 1:124:A:ARG:HB3 | 1:128:A:GLU:H | 17 | 0.13 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 6 | 0.13 |
| (1,741) | 1:59:A:LEU:HB3 | 1:59:A:LEU:H | 19 | 0.13 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 9 | 0.13 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 12 | 0.13 |
| (1,572) | 1:9:A:ASP:HB3 | 1:20:A:ALA:H | 7 | 0.13 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 12 | 0.13 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 4 | 0.13 |
| (1,359) | 1:83:A:GLY:HA3 | 1:83:A:GLY:H | 13 | 0.13 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 4 | 0.13 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 19 | 0.13 |
| (1,175) | 1:48:A:ASN:HD22 | 1:48:A:ASN:H | 2 | 0.13 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 7 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 10 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 11 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 17 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 18 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 19 | 0.12 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 4 | 0.12 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 4 | 0.12 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB1 | 12 | 0.12 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB2 | 12 | 0.12 |
| (1,3843) | 1:126:A:LEU:HA | 1:113:A:ALA:HB3 | 12 | 0.12 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 17 | 0.12 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 17 | 0.12 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 17 | 0.12 |
| (1,3721) | 1:7:A:ASP:H | 1:4:A:LYS:HD2 | 12 | 0.12 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 6 | 0.12 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 8 | 0.12 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 18 | 0.12 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 12 | 0.12 |
| (1,3620) | 1:73:A:ILE:HG13 | 1:2:A:SER:HA | 10 | 0.12 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 8 | 0.12 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 10 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3336) | 1:126:A:LEU:HD11 | 1:139:A:PRO:HB3 | 7 | 0.12 |
| (1,3336) | 1:126:A:LEU:HD12 | 1:139:A:PRO:HB3 | 7 | 0.12 |
| (1,3336) | 1:126:A:LEU:HD13 | 1:139:A:PRO:HB3 | 7 | 0.12 |
| (1,3299) | 1:34:A:LYS:HG2 | 1:112:A:ASP:HB3 | 14 | 0.12 |
| (1,3299) | 1:34:A:LYS:HG3 | 1:112:A:ASP:HB3 | 14 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 6 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 6 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 6 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 18 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 18 | 0.12 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 18 | 0.12 |
| (1,3242) | 1:144:A:LEU:H | 1:144:A:LEU:HA | 10 | 0.12 |
| (1,3230) | 1:54:A:ILE:HD11 | 1:51:A:ASP:HA | 8 | 0.12 |
| (1,3230) | 1:54:A:ILE:HD12 | 1:51:A:ASP:HA | 8 | 0.12 |
| (1,3230) | 1:54:A:ILE:HD13 | 1:51:A:ASP:HA | 8 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 8 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 8 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 8 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 20 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 20 | 0.12 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 20 | 0.12 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 1 | 0.12 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 1 | 0.12 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 1 | 0.12 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 18 | 0.12 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 18 | 0.12 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 12 | 0.12 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 12 | 0.12 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 12 | 0.12 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 10 | 0.12 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 10 | 0.12 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 10 | 0.12 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 3 | 0.12 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 3 | 0.12 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG21 | 1 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|------------------|----------|---------------|
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG22 | 1 | 0.12 |
| (1,2970) | 1:87:A:GLU:HG2 | 1:127:A:ILE:HG23 | 1 | 0.12 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG21 | 13 | 0.12 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG22 | 13 | 0.12 |
| (1,2966) | 1:94:A:CYS:HB3 | 1:91:A:ILE:HG23 | 13 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG21 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG22 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG23 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG21 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG22 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG23 | 4 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG21 | 15 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG22 | 15 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG23 | 15 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG21 | 15 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG22 | 15 | 0.12 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG23 | 15 | 0.12 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB1 | 20 | 0.12 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB2 | 20 | 0.12 |
| (1,2878) | 1:40:A:ASP:H | 1:38:A:ALA:HB3 | 20 | 0.12 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG21 | 2 | 0.12 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG22 | 2 | 0.12 |
| (1,2830) | 1:65:A:THR:H | 1:54:A:ILE:HG23 | 2 | 0.12 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG21 | 16 | 0.12 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG22 | 16 | 0.12 |
| (1,2829) | 1:59:A:LEU:H | 1:14:A:ILE:HG23 | 16 | 0.12 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 13 | 0.12 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 13 | 0.12 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 13 | 0.12 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 13 | 0.12 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 13 | 0.12 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 13 | 0.12 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG21 | 16 | 0.12 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG22 | 16 | 0.12 |
| (1,2761) | 1:74:A:TYR:HB2 | 1:75:A:THR:HG23 | 16 | 0.12 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG21 | 17 | 0.12 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG22 | 17 | 0.12 |
| (1,2752) | 1:35:A:GLN:HB2 | 1:32:A:THR:HG23 | 17 | 0.12 |
| (1,2744) | 1:35:A:GLN:HA | 1:31:A:LEU:HD11 | 3 | 0.12 |
| (1,2744) | 1:35:A:GLN:HA | 1:31:A:LEU:HD12 | 3 | 0.12 |
| (1,2744) | 1:35:A:GLN:HA | 1:31:A:LEU:HD13 | 3 | 0.12 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 3 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 3 | 0.12 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 3 | 0.12 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 16 | 0.12 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 16 | 0.12 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 16 | 0.12 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB1 | 2 | 0.12 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB2 | 2 | 0.12 |
| (1,2641) | 1:123:A:ASP:H | 1:113:A:ALA:HB3 | 2 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 9 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 9 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 9 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 17 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 17 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 17 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 20 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 20 | 0.12 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 20 | 0.12 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 13 | 0.12 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 13 | 0.12 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 13 | 0.12 |
| (1,2549) | 1:40:A:ASP:HB2 | 1:47:A:VAL:HG11 | 7 | 0.12 |
| (1,2549) | 1:40:A:ASP:HB2 | 1:47:A:VAL:HG12 | 7 | 0.12 |
| (1,2549) | 1:40:A:ASP:HB2 | 1:47:A:VAL:HG13 | 7 | 0.12 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD11 | 9 | 0.12 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD12 | 9 | 0.12 |
| (1,2537) | 1:52:A:LEU:HA | 1:55:A:LEU:HD13 | 9 | 0.12 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD11 | 9 | 0.12 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD12 | 9 | 0.12 |
| (1,2515) | 1:92:A:LEU:HA | 1:103:A:LEU:HD13 | 9 | 0.12 |
| (1,2337) | 1:84:A:ILE:H | 1:84:A:ILE:HG12 | 1 | 0.12 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 1 | 0.12 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 4 | 0.12 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 12 | 0.12 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 18 | 0.12 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 5 | 0.12 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 5 | 0.12 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 4 | 0.12 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 11 | 0.12 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG12 | 9 | 0.12 |
| (1,2260) | 1:124:A:ARG:HA | 1:127:A:ILE:HG13 | 9 | 0.12 |
| (1,2248) | 1:70:A:LYS:HA | 1:70:A:LYS:HD3 | 3 | 0.12 |
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG12 | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2215) | 1:9:A:ASP:H | 1:8:A:ILE:HG13 | 5 | 0.12 |
| (1,2180) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HB2 | 16 | 0.12 |
| (1,2157) | 1:4:A:LYS:HE2 | 1:13:A:GLU:HB3 | 14 | 0.12 |
| (1,2157) | 1:4:A:LYS:HE3 | 1:13:A:GLU:HB3 | 14 | 0.12 |
| (1,2154) | 1:104:A:SER:HA | 1:102:A:GLN:HG3 | 2 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 10 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 10 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 10 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 17 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 17 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 17 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 19 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 19 | 0.12 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 19 | 0.12 |
| (1,1840) | 1:57:A:MET:HE1 | 1:62:A:LYS:HE2 | 15 | 0.12 |
| (1,1840) | 1:57:A:MET:HE2 | 1:62:A:LYS:HE2 | 15 | 0.12 |
| (1,1840) | 1:57:A:MET:HE3 | 1:62:A:LYS:HE2 | 15 | 0.12 |
| (1,1651) | 1:59:A:LEU:HD21 | 1:56:A:GLN:HA | 11 | 0.12 |
| (1,1651) | 1:59:A:LEU:HD22 | 1:56:A:GLN:HA | 11 | 0.12 |
| (1,1651) | 1:59:A:LEU:HD23 | 1:56:A:GLN:HA | 11 | 0.12 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 8 | 0.12 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 16 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 1 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 1 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 1 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 15 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 15 | 0.12 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 15 | 0.12 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 1 | 0.12 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 2 | 0.12 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 7 | 0.12 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 7 | 0.12 |
| (1,1322) | 1:117:A:ASN:HA | 1:116:A:ASN:H | 3 | 0.12 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 5 | 0.12 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 11 | 0.12 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 16 | 0.12 |
| (1,1226) | 1:68:A:ILE:HD11 | 1:58:A:TYR:H | 1 | 0.12 |
| (1,1226) | 1:68:A:ILE:HD12 | 1:58:A:TYR:H | 1 | 0.12 |
| (1,1226) | 1:68:A:ILE:HD13 | 1:58:A:TYR:H | 1 | 0.12 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 2 | 0.12 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 7 | 0.12 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 19 | 0.12 |
| (1,1221) | 1:62:A:LYS:HB3 | 1:63:A:GLY:H | 19 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 3 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 3 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 3 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG21 | 1:133:A:GLY:H | 13 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG22 | 1:133:A:GLY:H | 13 | 0.12 |
| (1,1220) | 1:131:A:ILE:HG23 | 1:133:A:GLY:H | 13 | 0.12 |
| (1,1205) | 1:97:A:ILE:HD11 | 1:98:A:ASN:H | 15 | 0.12 |
| (1,1205) | 1:97:A:ILE:HD12 | 1:98:A:ASN:H | 15 | 0.12 |
| (1,1205) | 1:97:A:ILE:HD13 | 1:98:A:ASN:H | 15 | 0.12 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 3 | 0.12 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 3 | 0.12 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 3 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 4 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 4 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 4 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 13 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 13 | 0.12 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 13 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 1 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 1 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 1 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 10 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 10 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 10 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 15 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 15 | 0.12 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 15 | 0.12 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 2 | 0.12 |
| (1,1122) | 1:91:A:ILE:HG21 | 1:94:A:CYS:H | 4 | 0.12 |
| (1,1122) | 1:91:A:ILE:HG22 | 1:94:A:CYS:H | 4 | 0.12 |
| (1,1122) | 1:91:A:ILE:HG23 | 1:94:A:CYS:H | 4 | 0.12 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|---------------|----------|---------------|
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 18 | 0.12 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 18 | 0.12 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 18 | 0.12 |
| (1,1043) | 1:21:A:ILE:HG21 | 1:32:A:THR:H | 19 | 0.12 |
| (1,1043) | 1:21:A:ILE:HG22 | 1:32:A:THR:H | 19 | 0.12 |
| (1,1043) | 1:21:A:ILE:HG23 | 1:32:A:THR:H | 19 | 0.12 |
| (1,1042) | 1:50:A:ILE:HD11 | 1:49:A:SER:H | 3 | 0.12 |
| (1,1042) | 1:50:A:ILE:HD12 | 1:49:A:SER:H | 3 | 0.12 |
| (1,1042) | 1:50:A:ILE:HD13 | 1:49:A:SER:H | 3 | 0.12 |
| (1,1042) | 1:52:A:LEU:HD21 | 1:49:A:SER:H | 9 | 0.12 |
| (1,1042) | 1:52:A:LEU:HD22 | 1:49:A:SER:H | 9 | 0.12 |
| (1,1042) | 1:52:A:LEU:HD23 | 1:49:A:SER:H | 9 | 0.12 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 9 | 0.12 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 9 | 0.12 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 9 | 0.12 |
| (1,978) | 1:131:A:ILE:HD11 | 1:131:A:ILE:H | 7 | 0.12 |
| (1,978) | 1:131:A:ILE:HD12 | 1:131:A:ILE:H | 7 | 0.12 |
| (1,978) | 1:131:A:ILE:HD13 | 1:131:A:ILE:H | 7 | 0.12 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 10 | 0.12 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 10 | 0.12 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 10 | 0.12 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 20 | 0.12 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 20 | 0.12 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 20 | 0.12 |
| (1,933) | 1:52:A:LEU:HD21 | 1:26:A:LEU:H | 5 | 0.12 |
| (1,933) | 1:52:A:LEU:HD22 | 1:26:A:LEU:H | 5 | 0.12 |
| (1,933) | 1:52:A:LEU:HD23 | 1:26:A:LEU:H | 5 | 0.12 |
| (1,903) | 1:41:A:VAL:HG21 | 1:48:A:ASN:H | 4 | 0.12 |
| (1,903) | 1:41:A:VAL:HG22 | 1:48:A:ASN:H | 4 | 0.12 |
| (1,903) | 1:41:A:VAL:HG23 | 1:48:A:ASN:H | 4 | 0.12 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 7 | 0.12 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 7 | 0.12 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 9 | 0.12 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 9 | 0.12 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 5 | 0.12 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 5 | 0.12 |
| (1,823) | 1:70:A:LYS:HG2 | 1:69:A:GLY:H | 18 | 0.12 |
| (1,823) | 1:70:A:LYS:HG3 | 1:69:A:GLY:H | 18 | 0.12 |
| (1,798) | 1:13:A:GLU:HG2 | 1:13:A:GLU:H | 16 | 0.12 |
| (1,798) | 1:13:A:GLU:HG3 | 1:13:A:GLU:H | 16 | 0.12 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 1 | 0.12 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 13 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 4 | 0.12 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 11 | 0.12 |
| (1,760) | 1:97:A:ILE:HB | 1:96:A:HIS:H | 15 | 0.12 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 6 | 0.12 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 1 | 0.12 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 12 | 0.12 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 17 | 0.12 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 18 | 0.12 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 20 | 0.12 |
| (1,387) | 1:38:A:ALA:HA | 1:4:A:LYS:H | 2 | 0.12 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 1 | 0.12 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 16 | 0.12 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 5 | 0.12 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 6 | 0.12 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 8 | 0.12 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 11 | 0.12 |
| (1,359) | 1:83:A:GLY:HA3 | 1:83:A:GLY:H | 12 | 0.12 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 17 | 0.12 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 2 | 0.12 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 12 | 0.12 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 20 | 0.12 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 12 | 0.11 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG12 | 8 | 0.11 |
| (1,3875) | 1:55:A:LEU:HB3 | 1:8:A:ILE:HG13 | 8 | 0.11 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB1 | 20 | 0.11 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB2 | 20 | 0.11 |
| (1,3840) | 1:123:A:ASP:HB2 | 1:111:A:ALA:HB3 | 20 | 0.11 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG11 | 4 | 0.11 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG12 | 4 | 0.11 |
| (1,3834) | 1:74:A:TYR:H | 1:3:A:VAL:HG13 | 4 | 0.11 |
| (1,3724) | 1:71:A:ASN:HB3 | 1:5:A:ILE:HG13 | 20 | 0.11 |
| (1,3721) | 1:7:A:ASP:H | 1:4:A:LYS:HD2 | 2 | 0.11 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 2 | 0.11 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 8 | 0.11 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 14 | 0.11 |
| (1,3697) | 1:101:A:GLY:HA2 | 1:102:A:GLN:HG3 | 3 | 0.11 |
| (1,3623) | 1:135:A:ILE:HG12 | 1:134:A:ARG:HA | 16 | 0.11 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD11 | 10 | 0.11 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD12 | 10 | 0.11 |
| (1,3581) | 1:56:A:GLN:H | 1:68:A:ILE:HD13 | 10 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 5 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 5 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 11 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 11 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 11 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 12 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 12 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 12 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 17 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 17 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 17 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 20 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 20 | 0.11 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 20 | 0.11 |
| (1,3419) | 1:80:A:ASP:H | 1:81:A:ASN:HA | 14 | 0.11 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG21 | 16 | 0.11 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG22 | 16 | 0.11 |
| (1,3404) | 1:2:A:SER:HB3 | 1:73:A:ILE:HG23 | 16 | 0.11 |
| (1,3274) | 1:73:A:ILE:HA | 1:72:A:ARG:HD2 | 17 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 10 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 10 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 10 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG21 | 1:6:A:GLY:HA2 | 13 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG22 | 1:6:A:GLY:HA2 | 13 | 0.11 |
| (1,3263) | 1:5:A:ILE:HG23 | 1:6:A:GLY:HA2 | 13 | 0.11 |
| (1,3234) | 1:95:A:ASN:H | 1:92:A:LEU:HA | 14 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB2 | 20 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB1 | 1:49:A:SER:HB3 | 20 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB2 | 20 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB2 | 1:49:A:SER:HB3 | 20 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB2 | 20 | 0.11 |
| (1,3212) | 1:53:A:ALA:HB3 | 1:49:A:SER:HB3 | 20 | 0.11 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD11 | 8 | 0.11 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD12 | 8 | 0.11 |
| (1,3205) | 1:51:A:ASP:H | 1:50:A:ILE:HD13 | 8 | 0.11 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD11 | 5 | 0.11 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD12 | 5 | 0.11 |
| (1,3180) | 1:127:A:ILE:HB | 1:79:A:ILE:HD13 | 5 | 0.11 |
| (1,3169) | 1:128:A:GLU:HA | 1:125:A:ILE:HD11 | 17 | 0.11 |
| (1,3169) | 1:128:A:GLU:HA | 1:125:A:ILE:HD12 | 17 | 0.11 |
| (1,3169) | 1:128:A:GLU:HA | 1:125:A:ILE:HD13 | 17 | 0.11 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 9 | 0.11 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 9 | 0.11 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD11 | 18 | 0.11 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD12 | 18 | 0.11 |
| (1,3164) | 1:123:A:ASP:HB2 | 1:93:A:ILE:HD13 | 18 | 0.11 |
| (1,3133) | 1:125:A:ILE:HD11 | 1:128:A:GLU:HA | 17 | 0.11 |
| (1,3133) | 1:125:A:ILE:HD12 | 1:128:A:GLU:HA | 17 | 0.11 |
| (1,3133) | 1:125:A:ILE:HD13 | 1:128:A:GLU:HA | 17 | 0.11 |
| (1,3095) | 1:57:A:MET:HE1 | 1:53:A:ALA:HA | 8 | 0.11 |
| (1,3095) | 1:57:A:MET:HE2 | 1:53:A:ALA:HA | 8 | 0.11 |
| (1,3095) | 1:57:A:MET:HE3 | 1:53:A:ALA:HA | 8 | 0.11 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 2 | 0.11 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 2 | 0.11 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG2 | 16 | 0.11 |
| (1,3049) | 1:12:A:GLY:HA2 | 1:13:A:GLU:HG3 | 16 | 0.11 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 17 | 0.11 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 17 | 0.11 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 6 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 10 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 11 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 11 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 12 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 17 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 20 | 0.11 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 20 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG21 | 18 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG22 | 18 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD1 | 1:54:A:ILE:HG23 | 18 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG21 | 18 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG22 | 18 | 0.11 |
| (1,2891) | 1:58:A:TYR:HD2 | 1:54:A:ILE:HG23 | 18 | 0.11 |
| (1,2886) | 1:18:A:ASP:H | 1:17:A:ILE:HG21 | 19 | 0.11 |
| (1,2886) | 1:18:A:ASP:H | 1:17:A:ILE:HG22 | 19 | 0.11 |
| (1,2886) | 1:18:A:ASP:H | 1:17:A:ILE:HG23 | 19 | 0.11 |
| (1,2854) | 1:48:A:ASN:HD21 | 1:50:A:ILE:HG21 | 6 | 0.11 |
| (1,2854) | 1:48:A:ASN:HD21 | 1:50:A:ILE:HG22 | 6 | 0.11 |
| (1,2854) | 1:48:A:ASN:HD21 | 1:50:A:ILE:HG23 | 6 | 0.11 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG11 | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG12 | 12 | 0.11 |
| (1,2763) | 1:34:A:LYS:HE3 | 1:3:A:VAL:HG13 | 12 | 0.11 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG21 | 14 | 0.11 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG22 | 14 | 0.11 |
| (1,2743) | 1:18:A:ASP:HB2 | 1:8:A:ILE:HG23 | 14 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG21 | 17 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG22 | 17 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD2 | 1:132:A:THR:HG23 | 17 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG21 | 17 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG22 | 17 | 0.11 |
| (1,2721) | 1:134:A:ARG:HD3 | 1:132:A:THR:HG23 | 17 | 0.11 |
| (1,2718) | 1:114:A:ASP:HA | 1:140:A:VAL:HG21 | 5 | 0.11 |
| (1,2718) | 1:114:A:ASP:HA | 1:140:A:VAL:HG22 | 5 | 0.11 |
| (1,2718) | 1:114:A:ASP:HA | 1:140:A:VAL:HG23 | 5 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG21 | 10 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG22 | 10 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG2 | 1:132:A:THR:HG23 | 10 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG21 | 10 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG22 | 10 | 0.11 |
| (1,2697) | 1:128:A:GLU:HG3 | 1:132:A:THR:HG23 | 10 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 5 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 5 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 5 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 11 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 11 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 11 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 14 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 14 | 0.11 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 14 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 1 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 1 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 1 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 4 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 4 | 0.11 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 4 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 1 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 1 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 1 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 10 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 10 | 0.11 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 10 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG21 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG22 | 9 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG23 | 9 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG21 | 20 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG22 | 20 | 0.11 |
| (1,2618) | 1:131:A:ILE:H | 1:132:A:THR:HG23 | 20 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD21 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD22 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD11 | 1:22:A:LEU:HD23 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD21 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD22 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD12 | 1:22:A:LEU:HD23 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD21 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD22 | 19 | 0.11 |
| (1,2603) | 1:26:A:LEU:HD13 | 1:22:A:LEU:HD23 | 19 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 5 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 5 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 5 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD21 | 14 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD22 | 14 | 0.11 |
| (1,2583) | 1:126:A:LEU:HB2 | 1:138:A:LEU:HD23 | 14 | 0.11 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD11 | 20 | 0.11 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD12 | 20 | 0.11 |
| (1,2509) | 1:49:A:SER:HB2 | 1:52:A:LEU:HD13 | 20 | 0.11 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD11 | 20 | 0.11 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD12 | 20 | 0.11 |
| (1,2509) | 1:49:A:SER:HB3 | 1:52:A:LEU:HD13 | 20 | 0.11 |
| (1,2466) | 1:24:A:SER:H | 1:23:A:LYS:HG2 | 15 | 0.11 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 18 | 0.11 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 18 | 0.11 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 18 | 0.11 |
| (1,2414) | 1:62:A:LYS:HB3 | 1:62:A:LYS:HD2 | 5 | 0.11 |
| (1,2400) | 1:94:A:CYS:HB3 | 1:124:A:ARG:HG2 | 1 | 0.11 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 13 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 5 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 5 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 5 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD21 | 19 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD22 | 19 | 0.11 |
| (1,2350) | 1:52:A:LEU:H | 1:52:A:LEU:HD23 | 19 | 0.11 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD21 | 9 | 0.11 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD22 | 9 | 0.11 |
| (1,2344) | 1:58:A:TYR:HD1 | 1:59:A:LEU:HD23 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD21 | 9 | 0.11 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD22 | 9 | 0.11 |
| (1,2344) | 1:58:A:TYR:HD2 | 1:59:A:LEU:HD23 | 9 | 0.11 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 2 | 0.11 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 14 | 0.11 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 17 | 0.11 |
| (1,2278) | 1:50:A:ILE:HB | 1:54:A:ILE:HG12 | 17 | 0.11 |
| (1,2278) | 1:50:A:ILE:HB | 1:54:A:ILE:HG13 | 17 | 0.11 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 3 | 0.11 |
| (1,2231) | 1:35:A:GLN:H | 1:34:A:LYS:HD2 | 14 | 0.11 |
| (1,1859) | 1:60:A:LEU:HD21 | 1:62:A:LYS:HE2 | 3 | 0.11 |
| (1,1859) | 1:60:A:LEU:HD22 | 1:62:A:LYS:HE2 | 3 | 0.11 |
| (1,1859) | 1:60:A:LEU:HD23 | 1:62:A:LYS:HE2 | 3 | 0.11 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD2 | 17 | 0.11 |
| (1,1853) | 1:132:A:THR:HG21 | 1:134:A:ARG:HD3 | 17 | 0.11 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD2 | 17 | 0.11 |
| (1,1853) | 1:132:A:THR:HG22 | 1:134:A:ARG:HD3 | 17 | 0.11 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD2 | 17 | 0.11 |
| (1,1853) | 1:132:A:THR:HG23 | 1:134:A:ARG:HD3 | 17 | 0.11 |
| (1,1821) | 1:67:A:ASP:HA | 1:70:A:LYS:HE2 | 13 | 0.11 |
| (1,1821) | 1:67:A:ASP:HA | 1:70:A:LYS:HE3 | 13 | 0.11 |
| (1,1809) | 1:74:A:TYR:HE1 | 1:72:A:ARG:HD2 | 1 | 0.11 |
| (1,1809) | 1:74:A:TYR:HE2 | 1:72:A:ARG:HD2 | 1 | 0.11 |
| (1,1801) | 1:144:A:LEU:H | 1:144:A:LEU:HB2 | 15 | 0.11 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA2 | 11 | 0.11 |
| (1,1768) | 1:57:A:MET:HB2 | 1:64:A:GLY:HA3 | 11 | 0.11 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 5 | 0.11 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 13 | 0.11 |
| (1,1639) | 1:23:A:LYS:HD2 | 1:23:A:LYS:HA | 18 | 0.11 |
| (1,1534) | 1:20:A:ALA:HB1 | 1:17:A:ILE:HA | 14 | 0.11 |
| (1,1534) | 1:20:A:ALA:HB2 | 1:17:A:ILE:HA | 14 | 0.11 |
| (1,1534) | 1:20:A:ALA:HB3 | 1:17:A:ILE:HA | 14 | 0.11 |
| (1,1507) | 1:69:A:GLY:HA3 | 1:14:A:ILE:HD11 | 10 | 0.11 |
| (1,1507) | 1:69:A:GLY:HA3 | 1:14:A:ILE:HD12 | 10 | 0.11 |
| (1,1507) | 1:69:A:GLY:HA3 | 1:14:A:ILE:HD13 | 10 | 0.11 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 4 | 0.11 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 17 | 0.11 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 6 | 0.11 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 16 | 0.11 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 18 | 0.11 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 20 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 5 | 0.11 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 5 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD11 | 17 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD12 | 17 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD1 | 1:135:A:ILE:HD13 | 17 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD11 | 17 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD12 | 17 | 0.11 |
| (1,1379) | 1:130:A:TYR:HD2 | 1:135:A:ILE:HD13 | 17 | 0.11 |
| (1,1326) | 1:5:A:ILE:HD11 | 1:39:A:ALA:H | 9 | 0.11 |
| (1,1326) | 1:5:A:ILE:HD12 | 1:39:A:ALA:H | 9 | 0.11 |
| (1,1326) | 1:5:A:ILE:HD13 | 1:39:A:ALA:H | 9 | 0.11 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 18 | 0.11 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 3 | 0.11 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 7 | 0.11 |
| (1,1260) | 1:51:A:ASP:H | 1:41:A:VAL:H | 19 | 0.11 |
| (1,1241) | 1:127:A:ILE:HA | 1:128:A:GLU:H | 17 | 0.11 |
| (1,1226) | 1:68:A:ILE:HD11 | 1:58:A:TYR:H | 5 | 0.11 |
| (1,1226) | 1:68:A:ILE:HD12 | 1:58:A:TYR:H | 5 | 0.11 |
| (1,1226) | 1:68:A:ILE:HD13 | 1:58:A:TYR:H | 5 | 0.11 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 1 | 0.11 |
| (1,1222) | 1:63:A:GLY:HA3 | 1:63:A:GLY:H | 11 | 0.11 |
| (1,1205) | 1:97:A:ILE:HD11 | 1:98:A:ASN:H | 11 | 0.11 |
| (1,1205) | 1:97:A:ILE:HD12 | 1:98:A:ASN:H | 11 | 0.11 |
| (1,1205) | 1:97:A:ILE:HD13 | 1:98:A:ASN:H | 11 | 0.11 |
| (1,1197) | 1:126:A:LEU:HD11 | 1:122:A:THR:H | 4 | 0.11 |
| (1,1197) | 1:126:A:LEU:HD12 | 1:122:A:THR:H | 4 | 0.11 |
| (1,1197) | 1:126:A:LEU:HD13 | 1:122:A:THR:H | 4 | 0.11 |
| (1,1195) | 1:60:A:LEU:HD21 | 1:57:A:MET:H | 15 | 0.11 |
| (1,1195) | 1:60:A:LEU:HD22 | 1:57:A:MET:H | 15 | 0.11 |
| (1,1195) | 1:60:A:LEU:HD23 | 1:57:A:MET:H | 15 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 7 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 7 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 7 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 12 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 12 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1182) | 1:126:A:LEU:HD11 | 1:127:A:ILE:H | 16 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD12 | 1:127:A:ILE:H | 16 | 0.11 |
| (1,1182) | 1:126:A:LEU:HD13 | 1:127:A:ILE:H | 16 | 0.11 |
| (1,1177) | 1:92:A:LEU:HD11 | 1:89:A:ASP:H | 18 | 0.11 |
| (1,1177) | 1:92:A:LEU:HD12 | 1:89:A:ASP:H | 18 | 0.11 |
| (1,1177) | 1:92:A:LEU:HD13 | 1:89:A:ASP:H | 18 | 0.11 |
| (1,1150) | 1:134:A:ARG:HG2 | 1:129:A:LYS:H | 5 | 0.11 |
| (1,1150) | 1:134:A:ARG:HG3 | 1:129:A:LYS:H | 5 | 0.11 |
| (1,1149) | 1:135:A:ILE:HG12 | 1:129:A:LYS:H | 13 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 8 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 8 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 8 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 10 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 10 | 0.11 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 10 | 0.11 |
| (1,1117) | 1:96:A:HIS:HA | 1:102:A:GLN:H | 20 | 0.11 |
| (1,1092) | 1:103:A:LEU:HD21 | 1:111:A:ALA:H | 6 | 0.11 |
| (1,1092) | 1:103:A:LEU:HD22 | 1:111:A:ALA:H | 6 | 0.11 |
| (1,1092) | 1:103:A:LEU:HD23 | 1:111:A:ALA:H | 6 | 0.11 |
| (1,1091) | 1:108:A:LEU:HD21 | 1:104:A:SER:H | 6 | 0.11 |
| (1,1091) | 1:108:A:LEU:HD22 | 1:104:A:SER:H | 6 | 0.11 |
| (1,1091) | 1:108:A:LEU:HD23 | 1:104:A:SER:H | 6 | 0.11 |
| (1,1091) | 1:103:A:LEU:HD21 | 1:104:A:SER:H | 15 | 0.11 |
| (1,1091) | 1:103:A:LEU:HD22 | 1:104:A:SER:H | 15 | 0.11 |
| (1,1091) | 1:103:A:LEU:HD23 | 1:104:A:SER:H | 15 | 0.11 |
| (1,1021) | 1:92:A:LEU:HD11 | 1:88:A:ASN:HD22 | 10 | 0.11 |
| (1,1021) | 1:92:A:LEU:HD12 | 1:88:A:ASN:HD22 | 10 | 0.11 |
| (1,1021) | 1:92:A:LEU:HD13 | 1:88:A:ASN:HD22 | 10 | 0.11 |
| (1,1009) | 1:131:A:ILE:HG21 | 1:87:A:GLU:H | 7 | 0.11 |
| (1,1009) | 1:131:A:ILE:HG22 | 1:87:A:GLU:H | 7 | 0.11 |
| (1,1009) | 1:131:A:ILE:HG23 | 1:87:A:GLU:H | 7 | 0.11 |
| (1,1007) | 1:14:A:ILE:HG12 | 1:69:A:GLY:H | 20 | 0.11 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 10 | 0.11 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 10 | 0.11 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 10 | 0.11 |
| (1,981) | 1:84:A:ILE:HD11 | 1:82:A:ASN:H | 1 | 0.11 |
| (1,981) | 1:84:A:ILE:HD12 | 1:82:A:ASN:H | 1 | 0.11 |
| (1,981) | 1:84:A:ILE:HD13 | 1:82:A:ASN:H | 1 | 0.11 |
| (1,980) | 1:54:A:ILE:HD11 | 1:42:A:ASP:H | 4 | 0.11 |
| (1,980) | 1:54:A:ILE:HD12 | 1:42:A:ASP:H | 4 | 0.11 |
| (1,980) | 1:54:A:ILE:HD13 | 1:42:A:ASP:H | 4 | 0.11 |
| (1,977) | 1:132:A:THR:HG21 | 1:131:A:ILE:H | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|-----------------|----------|---------------|
| (1,977) | 1:132:A:THR:HG22 | 1:131:A:ILE:H | 9 | 0.11 |
| (1,977) | 1:132:A:THR:HG23 | 1:131:A:ILE:H | 9 | 0.11 |
| (1,977) | 1:132:A:THR:HG21 | 1:131:A:ILE:H | 20 | 0.11 |
| (1,977) | 1:132:A:THR:HG22 | 1:131:A:ILE:H | 20 | 0.11 |
| (1,977) | 1:132:A:THR:HG23 | 1:131:A:ILE:H | 20 | 0.11 |
| (1,974) | 1:17:A:ILE:HG21 | 1:18:A:ASP:H | 19 | 0.11 |
| (1,974) | 1:17:A:ILE:HG22 | 1:18:A:ASP:H | 19 | 0.11 |
| (1,974) | 1:17:A:ILE:HG23 | 1:18:A:ASP:H | 19 | 0.11 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 13 | 0.11 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 13 | 0.11 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 13 | 0.11 |
| (1,931) | 1:8:A:ILE:HG21 | 1:22:A:LEU:H | 13 | 0.11 |
| (1,931) | 1:8:A:ILE:HG22 | 1:22:A:LEU:H | 13 | 0.11 |
| (1,931) | 1:8:A:ILE:HG23 | 1:22:A:LEU:H | 13 | 0.11 |
| (1,874) | 1:139:A:PRO:HG2 | 1:115:A:GLY:H | 11 | 0.11 |
| (1,874) | 1:139:A:PRO:HG3 | 1:115:A:GLY:H | 11 | 0.11 |
| (1,871) | 1:52:A:LEU:HG | 1:56:A:GLN:HE22 | 14 | 0.11 |
| (1,806) | 1:53:A:ALA:HB1 | 1:57:A:MET:H | 17 | 0.11 |
| (1,806) | 1:53:A:ALA:HB2 | 1:57:A:MET:H | 17 | 0.11 |
| (1,806) | 1:53:A:ALA:HB3 | 1:57:A:MET:H | 17 | 0.11 |
| (1,798) | 1:13:A:GLU:HG2 | 1:13:A:GLU:H | 14 | 0.11 |
| (1,798) | 1:13:A:GLU:HG3 | 1:13:A:GLU:H | 14 | 0.11 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 5 | 0.11 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 10 | 0.11 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 8 | 0.11 |
| (1,596) | 1:95:A:ASN:HB3 | 1:95:A:ASN:H | 18 | 0.11 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 2 | 0.11 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 8 | 0.11 |
| (1,579) | 1:142:A:ASN:HB3 | 1:143:A:GLN:H | 11 | 0.11 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 11 | 0.11 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 2 | 0.11 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 7 | 0.11 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 8 | 0.11 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 13 | 0.11 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 1 | 0.11 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 18 | 0.11 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 19 | 0.11 |
| (1,333) | 1:75:A:THR:HB | 1:78:A:ASP:H | 12 | 0.11 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 17 | 0.11 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 18 | 0.11 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 1 | 0.11 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 4 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|------------------|----------|---------------|
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 8 | 0.11 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 13 | 0.11 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 20 | 0.11 |
| (3,61) | 1:109:A:PHE:H | 1:105:A:ASP:O | 20 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD1 | 3 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD21 | 1:19:A:TYR:HD2 | 3 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD1 | 3 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD22 | 1:19:A:TYR:HD2 | 3 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD1 | 3 | 0.1 |
| (1,3943) | 1:22:A:LEU:HD23 | 1:19:A:TYR:HD2 | 3 | 0.1 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD1 | 6 | 0.1 |
| (1,3938) | 1:14:A:ILE:HB | 1:58:A:TYR:HD2 | 6 | 0.1 |
| (1,3716) | 1:121:A:GLN:HE22 | 1:97:A:ILE:HG12 | 4 | 0.1 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 5 | 0.1 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 17 | 0.1 |
| (1,3707) | 1:71:A:ASN:HA | 1:72:A:ARG:HB2 | 18 | 0.1 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD11 | 20 | 0.1 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD12 | 20 | 0.1 |
| (1,3543) | 1:17:A:ILE:HA | 1:21:A:ILE:HD13 | 20 | 0.1 |
| (1,3520) | 1:127:A:ILE:HD11 | 1:126:A:LEU:HB2 | 19 | 0.1 |
| (1,3520) | 1:127:A:ILE:HD12 | 1:126:A:LEU:HB2 | 19 | 0.1 |
| (1,3520) | 1:127:A:ILE:HD13 | 1:126:A:LEU:HB2 | 19 | 0.1 |
| (1,3459) | 1:74:A:TYR:HB3 | 1:73:A:ILE:HA | 20 | 0.1 |
| (1,3242) | 1:144:A:LEU:H | 1:144:A:LEU:HA | 1 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD11 | 4 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD12 | 4 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE2 | 1:135:A:ILE:HD13 | 4 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD11 | 4 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD12 | 4 | 0.1 |
| (1,3177) | 1:129:A:LYS:HE3 | 1:135:A:ILE:HD13 | 4 | 0.1 |
| (1,3140) | 1:54:A:ILE:H | 1:51:A:ASP:HA | 3 | 0.1 |
| (1,3096) | 1:79:A:ILE:HG21 | 1:80:A:ASP:HA | 16 | 0.1 |
| (1,3096) | 1:79:A:ILE:HG22 | 1:80:A:ASP:HA | 16 | 0.1 |
| (1,3096) | 1:79:A:ILE:HG23 | 1:80:A:ASP:HA | 16 | 0.1 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE1 | 20 | 0.1 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE2 | 20 | 0.1 |
| (1,3030) | 1:58:A:TYR:H | 1:57:A:MET:HE3 | 20 | 0.1 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG21 | 16 | 0.1 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG22 | 16 | 0.1 |
| (1,2995) | 1:70:A:LYS:HB3 | 1:5:A:ILE:HG23 | 16 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 8 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 8 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|----------------|-----------------|----------|---------------|
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 8 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 12 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 12 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 12 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB1 | 14 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB2 | 14 | 0.1 |
| (1,2980) | 1:54:A:ILE:HB | 1:53:A:ALA:HB3 | 14 | 0.1 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB1 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB2 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE1 | 1:53:A:ALA:HB3 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB1 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB2 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE2 | 1:53:A:ALA:HB3 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB1 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB2 | 13 | 0.1 |
| (1,2979) | 1:57:A:MET:HE3 | 1:53:A:ALA:HB3 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE1 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE2 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB1 | 1:57:A:MET:HE3 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE1 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE2 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB2 | 1:57:A:MET:HE3 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE1 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE2 | 13 | 0.1 |
| (1,2978) | 1:53:A:ALA:HB3 | 1:57:A:MET:HE3 | 13 | 0.1 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG21 | 8 | 0.1 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG22 | 8 | 0.1 |
| (1,2844) | 1:58:A:TYR:H | 1:68:A:ILE:HG23 | 8 | 0.1 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG11 | 7 | 0.1 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG12 | 7 | 0.1 |
| (1,2765) | 1:40:A:ASP:HB3 | 1:3:A:VAL:HG13 | 7 | 0.1 |
| (1,2764) | 1:74:A:TYR:HB3 | 1:3:A:VAL:HG21 | 3 | 0.1 |
| (1,2764) | 1:74:A:TYR:HB3 | 1:3:A:VAL:HG22 | 3 | 0.1 |
| (1,2764) | 1:74:A:TYR:HB3 | 1:3:A:VAL:HG23 | 3 | 0.1 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG21 | 16 | 0.1 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG22 | 16 | 0.1 |
| (1,2713) | 1:80:A:ASP:HA | 1:79:A:ILE:HG23 | 16 | 0.1 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG11 | 15 | 0.1 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG12 | 15 | 0.1 |
| (1,2682) | 1:38:A:ALA:H | 1:3:A:VAL:HG13 | 15 | 0.1 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG21 | 12 | 0.1 |
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG22 | 12 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|------------------|----------|---------------|
| (1,2664) | 1:52:A:LEU:H | 1:41:A:VAL:HG23 | 12 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 1 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 1 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 1 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 3 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 3 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 3 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG21 | 14 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG22 | 14 | 0.1 |
| (1,2652) | 1:80:A:ASP:H | 1:79:A:ILE:HG23 | 14 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 6 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 6 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 6 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG21 | 15 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG22 | 15 | 0.1 |
| (1,2630) | 1:75:A:THR:H | 1:75:A:THR:HG23 | 15 | 0.1 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD11 | 19 | 0.1 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD12 | 19 | 0.1 |
| (1,2456) | 1:23:A:LYS:H | 1:52:A:LEU:HD13 | 19 | 0.1 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD21 | 7 | 0.1 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD22 | 7 | 0.1 |
| (1,2373) | 1:55:A:LEU:HA | 1:59:A:LEU:HD23 | 7 | 0.1 |
| (1,2352) | 1:85:A:VAL:HA | 1:84:A:ILE:HG13 | 14 | 0.1 |
| (1,2337) | 1:84:A:ILE:H | 1:84:A:ILE:HG12 | 20 | 0.1 |
| (1,2316) | 1:121:A:GLN:H | 1:121:A:GLN:HB3 | 9 | 0.1 |
| (1,2300) | 1:49:A:SER:H | 1:50:A:ILE:HG13 | 11 | 0.1 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG12 | 3 | 0.1 |
| (1,2277) | 1:93:A:ILE:HB | 1:127:A:ILE:HG13 | 3 | 0.1 |
| (1,2273) | 1:70:A:LYS:HB2 | 1:70:A:LYS:HD2 | 15 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 11 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 11 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 11 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD21 | 1:80:A:ASP:HB3 | 13 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD22 | 1:80:A:ASP:HB3 | 13 | 0.1 |
| (1,1939) | 1:92:A:LEU:HD23 | 1:80:A:ASP:HB3 | 13 | 0.1 |
| (1,1801) | 1:144:A:LEU:H | 1:144:A:LEU:HB2 | 4 | 0.1 |
| (1,1609) | 1:123:A:ASP:HA | 1:121:A:GLN:HA | 10 | 0.1 |
| (1,1555) | 1:52:A:LEU:HD21 | 1:49:A:SER:HB2 | 16 | 0.1 |
| (1,1555) | 1:52:A:LEU:HD21 | 1:49:A:SER:HB3 | 16 | 0.1 |
| (1,1555) | 1:52:A:LEU:HD22 | 1:49:A:SER:HB2 | 16 | 0.1 |
| (1,1555) | 1:52:A:LEU:HD22 | 1:49:A:SER:HB3 | 16 | 0.1 |
| (1,1555) | 1:52:A:LEU:HD23 | 1:49:A:SER:HB2 | 16 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|------------------|-----------------|----------|---------------|
| (1,1555) | 1:52:A:LEU:HD23 | 1:49:A:SER:HB3 | 16 | 0.1 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD11 | 20 | 0.1 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD12 | 20 | 0.1 |
| (1,1549) | 1:70:A:LYS:HB2 | 1:5:A:ILE:HD13 | 20 | 0.1 |
| (1,1502) | 1:26:A:LEU:HA | 1:27:A:ILE:HA | 2 | 0.1 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 4 | 0.1 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 12 | 0.1 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 15 | 0.1 |
| (1,1482) | 1:28:A:ASN:H | 1:27:A:ILE:HA | 19 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD11 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD12 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG21 | 1:93:A:ILE:HD13 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD11 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD12 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG22 | 1:93:A:ILE:HD13 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD11 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD12 | 1 | 0.1 |
| (1,1451) | 1:119:A:ILE:HG23 | 1:93:A:ILE:HD13 | 1 | 0.1 |
| (1,1401) | 1:121:A:GLN:HA | 1:97:A:ILE:HD11 | 14 | 0.1 |
| (1,1401) | 1:121:A:GLN:HA | 1:97:A:ILE:HD12 | 14 | 0.1 |
| (1,1401) | 1:121:A:GLN:HA | 1:97:A:ILE:HD13 | 14 | 0.1 |
| (1,1321) | 1:23:A:LYS:HB3 | 1:23:A:LYS:H | 8 | 0.1 |
| (1,1226) | 1:68:A:ILE:HD11 | 1:58:A:TYR:H | 19 | 0.1 |
| (1,1226) | 1:68:A:ILE:HD12 | 1:58:A:TYR:H | 19 | 0.1 |
| (1,1226) | 1:68:A:ILE:HD13 | 1:58:A:TYR:H | 19 | 0.1 |
| (1,1177) | 1:92:A:LEU:HD21 | 1:89:A:ASP:H | 8 | 0.1 |
| (1,1177) | 1:92:A:LEU:HD22 | 1:89:A:ASP:H | 8 | 0.1 |
| (1,1177) | 1:92:A:LEU:HD23 | 1:89:A:ASP:H | 8 | 0.1 |
| (1,1122) | 1:93:A:ILE:HD11 | 1:94:A:CYS:H | 18 | 0.1 |
| (1,1122) | 1:93:A:ILE:HD12 | 1:94:A:CYS:H | 18 | 0.1 |
| (1,1122) | 1:93:A:ILE:HD13 | 1:94:A:CYS:H | 18 | 0.1 |
| (1,1115) | 1:55:A:LEU:HD21 | 1:8:A:ILE:H | 6 | 0.1 |
| (1,1115) | 1:55:A:LEU:HD22 | 1:8:A:ILE:H | 6 | 0.1 |
| (1,1115) | 1:55:A:LEU:HD23 | 1:8:A:ILE:H | 6 | 0.1 |
| (1,1004) | 1:59:A:LEU:HD21 | 1:16:A:SER:H | 2 | 0.1 |
| (1,1004) | 1:59:A:LEU:HD22 | 1:16:A:SER:H | 2 | 0.1 |
| (1,1004) | 1:59:A:LEU:HD23 | 1:16:A:SER:H | 2 | 0.1 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 1 | 0.1 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 1 | 0.1 |
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 1 | 0.1 |
| (1,939) | 1:91:A:ILE:HD11 | 1:91:A:ILE:H | 6 | 0.1 |
| (1,939) | 1:91:A:ILE:HD12 | 1:91:A:ILE:H | 6 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|------------------|------------------|----------|---------------|
| (1,939) | 1:91:A:ILE:HD13 | 1:91:A:ILE:H | 6 | 0.1 |
| (1,872) | 1:63:A:GLY:HA2 | 1:63:A:GLY:H | 14 | 0.1 |
| (1,857) | 1:97:A:ILE:HG12 | 1:121:A:GLN:HE22 | 4 | 0.1 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 4 | 0.1 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 7 | 0.1 |
| (1,779) | 1:62:A:LYS:HB3 | 1:62:A:LYS:H | 18 | 0.1 |
| (1,772) | 1:20:A:ALA:HB1 | 1:23:A:LYS:H | 2 | 0.1 |
| (1,772) | 1:20:A:ALA:HB2 | 1:23:A:LYS:H | 2 | 0.1 |
| (1,772) | 1:20:A:ALA:HB3 | 1:23:A:LYS:H | 2 | 0.1 |
| (1,582) | 1:57:A:MET:HB3 | 1:58:A:TYR:H | 16 | 0.1 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 15 | 0.1 |
| (1,391) | 1:72:A:ARG:HD2 | 1:73:A:ILE:H | 19 | 0.1 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 5 | 0.1 |
| (1,380) | 1:61:A:GLY:HA3 | 1:61:A:GLY:H | 15 | 0.1 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 2 | 0.1 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 4 | 0.1 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 10 | 0.1 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 15 | 0.1 |
| (1,359) | 1:45:A:GLY:HA3 | 1:45:A:GLY:H | 16 | 0.1 |
| (1,282) | 1:144:A:LEU:HA | 1:144:A:LEU:H | 1 | 0.1 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 6 | 0.1 |
| (1,250) | 1:102:A:GLN:HE22 | 1:101:A:GLY:H | 8 | 0.1 |
| (1,81) | 1:58:A:TYR:H | 1:61:A:GLY:H | 5 | 0.1 |

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

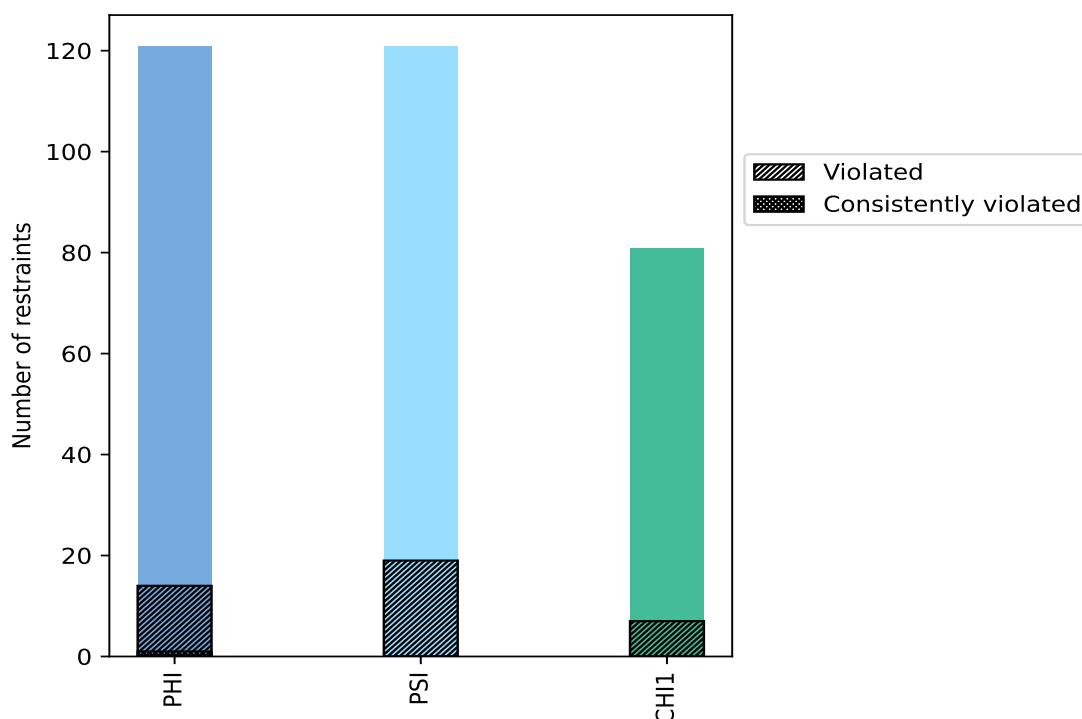
10.1 Summary of dihedral-angle violations [i](#)

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

| Angle type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|------------|-------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| PHI | 121 | 37.5 | 14 | 11.6 | 4.3 | 1 | 0.8 | 0.3 |
| PSI | 121 | 37.5 | 19 | 15.7 | 5.9 | 0 | 0.0 | 0.0 |
| CHI1 | 81 | 25.1 | 7 | 8.6 | 2.2 | 0 | 0.0 | 0.0 |
| Total | 323 | 100.0 | 40 | 12.4 | 12.4 | 1 | 0.3 | 0.3 |

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

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



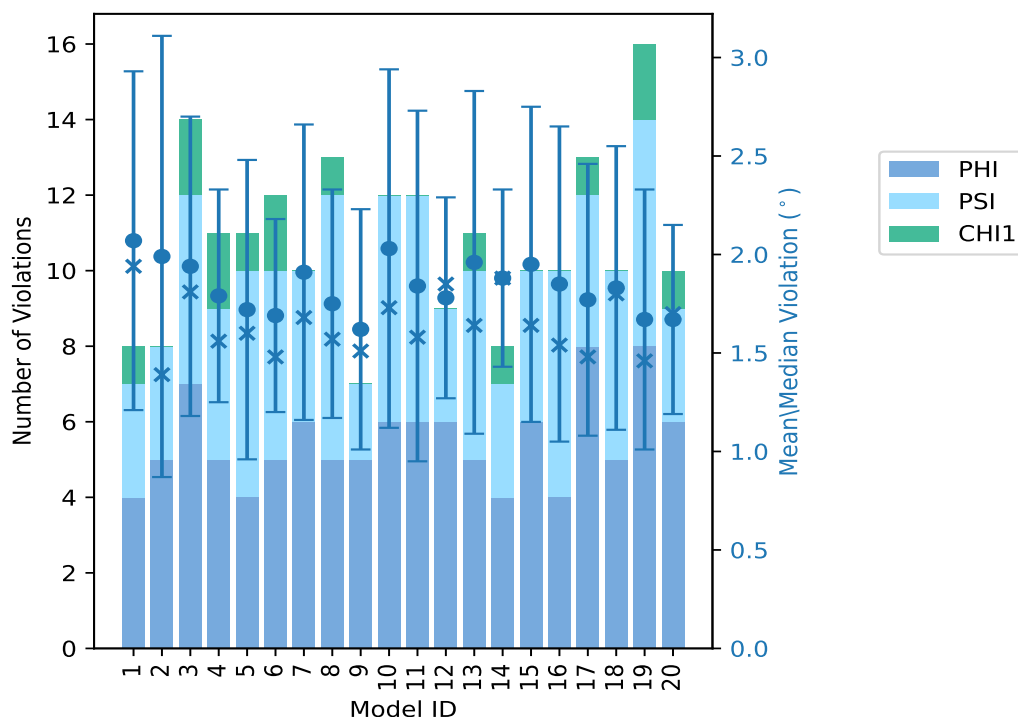
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

| Model ID | Number of violations | | | | Mean (°) | Max (°) | SD (°) | Median (°) |
|----------|----------------------|-----|------|-------|----------|---------|--------|------------|
| | PHI | PSI | CHI1 | Total | | | | |
| 1 | 4 | 3 | 1 | 8 | 2.07 | 3.64 | 0.86 | 1.94 |
| 2 | 5 | 3 | 0 | 8 | 1.99 | 4.33 | 1.12 | 1.39 |
| 3 | 7 | 5 | 2 | 14 | 1.94 | 3.32 | 0.76 | 1.81 |
| 4 | 5 | 4 | 2 | 11 | 1.79 | 2.62 | 0.54 | 1.56 |
| 5 | 4 | 6 | 1 | 11 | 1.72 | 3.79 | 0.76 | 1.6 |
| 6 | 5 | 5 | 2 | 12 | 1.69 | 2.74 | 0.49 | 1.48 |
| 7 | 6 | 4 | 0 | 10 | 1.91 | 3.51 | 0.75 | 1.68 |
| 8 | 5 | 7 | 1 | 13 | 1.75 | 3.29 | 0.58 | 1.57 |
| 9 | 5 | 2 | 0 | 7 | 1.62 | 3.0 | 0.61 | 1.51 |
| 10 | 6 | 6 | 0 | 12 | 2.03 | 4.41 | 0.91 | 1.73 |
| 11 | 6 | 6 | 0 | 12 | 1.84 | 4.2 | 0.89 | 1.58 |
| 12 | 6 | 3 | 0 | 9 | 1.78 | 2.64 | 0.51 | 1.85 |
| 13 | 5 | 5 | 1 | 11 | 1.96 | 3.79 | 0.87 | 1.64 |
| 14 | 4 | 3 | 1 | 8 | 1.88 | 2.72 | 0.45 | 1.88 |
| 15 | 6 | 4 | 0 | 10 | 1.95 | 4.05 | 0.8 | 1.64 |
| 16 | 4 | 6 | 0 | 10 | 1.85 | 3.37 | 0.8 | 1.54 |
| 17 | 8 | 4 | 1 | 13 | 1.77 | 3.73 | 0.69 | 1.48 |
| 18 | 5 | 5 | 0 | 10 | 1.83 | 3.61 | 0.72 | 1.8 |
| 19 | 8 | 6 | 2 | 16 | 1.67 | 3.74 | 0.66 | 1.46 |
| 20 | 6 | 3 | 1 | 10 | 1.67 | 2.39 | 0.48 | 1.7 |

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



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

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

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

| Number of violated restraints | | | | Fraction of the ensemble | |
|-------------------------------|-----|------|-------|--------------------------|------|
| PHI | PSI | CHI1 | Total | Count ¹ | % |
| 2 | 6 | 5 | 13 | 1 | 5.0 |
| 3 | 4 | 1 | 8 | 2 | 10.0 |
| 1 | 3 | 0 | 4 | 3 | 15.0 |
| 0 | 0 | 0 | 0 | 4 | 20.0 |
| 2 | 0 | 0 | 2 | 5 | 25.0 |
| 0 | 3 | 0 | 3 | 6 | 30.0 |
| 0 | 0 | 0 | 0 | 7 | 35.0 |
| 0 | 0 | 1 | 1 | 8 | 40.0 |
| 1 | 0 | 0 | 1 | 9 | 45.0 |
| 0 | 0 | 0 | 0 | 10 | 50.0 |
| 1 | 0 | 0 | 1 | 11 | 55.0 |

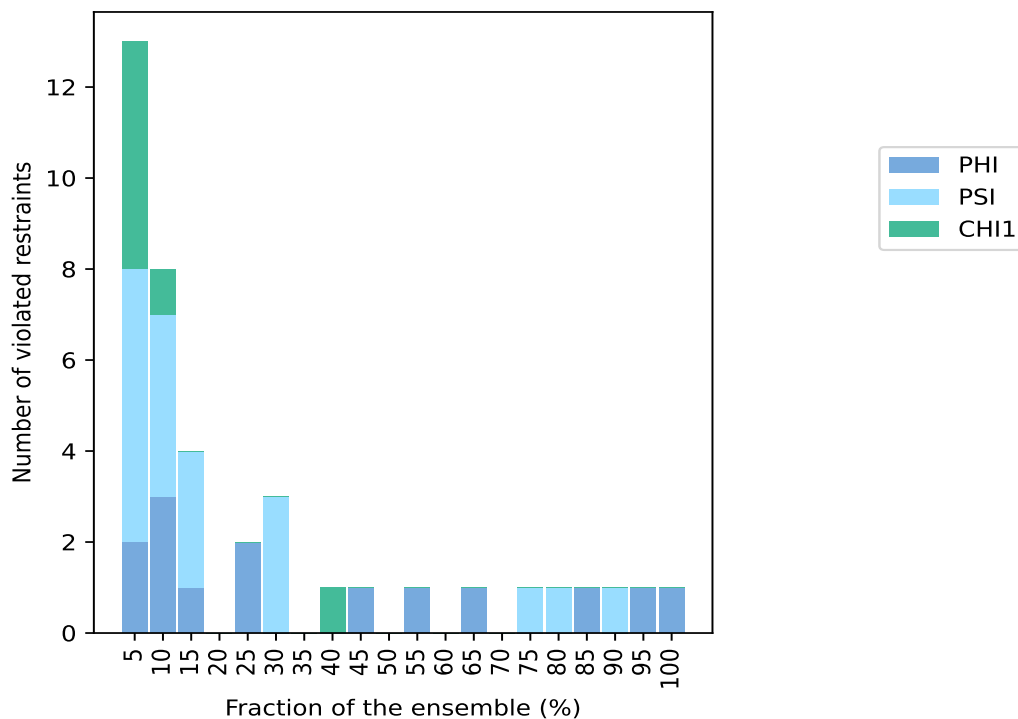
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| Number of violated restraints | | | | Fraction of the ensemble | |
|-------------------------------|-----|------|-------|--------------------------|-------|
| PHI | PSI | CHI1 | Total | Count ¹ | % |
| 0 | 0 | 0 | 0 | 12 | 60.0 |
| 1 | 0 | 0 | 1 | 13 | 65.0 |
| 0 | 0 | 0 | 0 | 14 | 70.0 |
| 0 | 1 | 0 | 1 | 15 | 75.0 |
| 0 | 1 | 0 | 1 | 16 | 80.0 |
| 1 | 0 | 0 | 1 | 17 | 85.0 |
| 0 | 1 | 0 | 1 | 18 | 90.0 |
| 1 | 0 | 0 | 1 | 19 | 95.0 |
| 1 | 0 | 0 | 1 | 20 | 100.0 |

¹ Number of models with violations

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

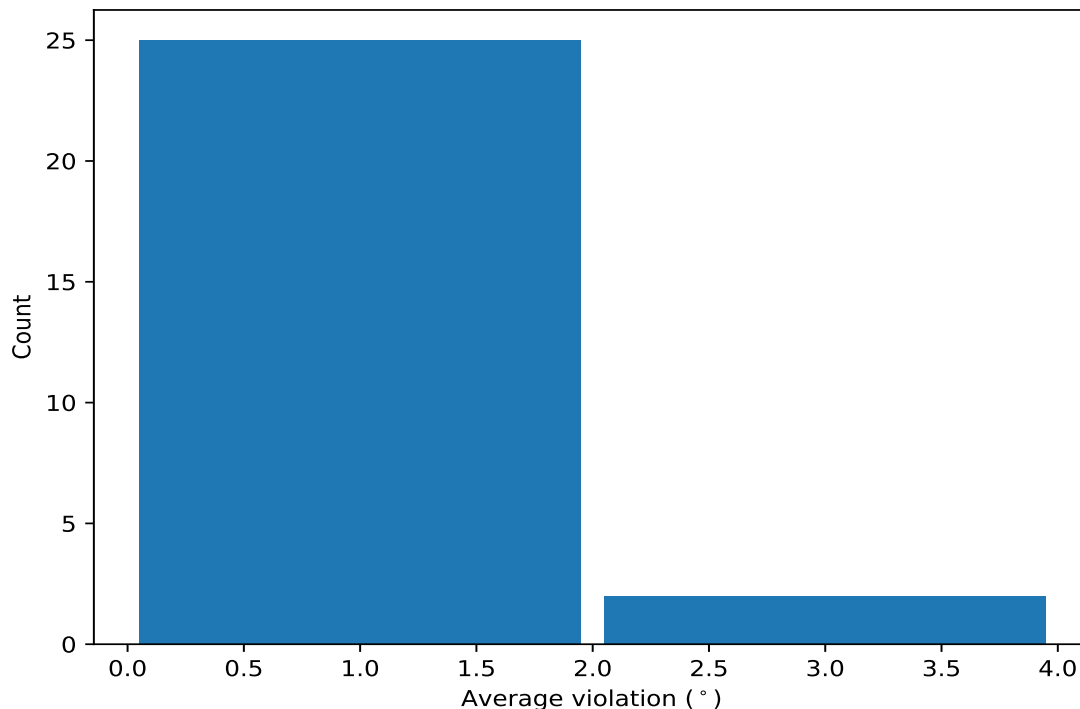


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|---------------|----------------|----------------|----------------|---------------------|------|-----------------|--------|
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 20 | 3.31 | 0.72 | 3.34 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 19 | 1.93 | 0.4 | 1.92 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 18 | 1.62 | 0.33 | 1.6 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 17 | 2.52 | 0.6 | 2.48 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 16 | 1.89 | 0.6 | 1.9 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 15 | 1.97 | 0.49 | 2.02 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 13 | 1.5 | 0.37 | 1.5 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 11 | 1.4 | 0.26 | 1.32 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 9 | 1.2 | 0.2 | 1.17 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 8 | 1.92 | 0.64 | 1.84 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 6 | 1.72 | 0.45 | 1.62 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 6 | 1.59 | 0.33 | 1.6 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 6 | 1.29 | 0.47 | 1.12 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 5 | 1.46 | 0.36 | 1.35 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 5 | 1.34 | 0.17 | 1.34 |
| (1,82) | 1:49:A:SER:N | 1:49:A:SER:CA | 1:49:A:SER:C | 1:50:A:ILE:N | 3 | 1.56 | 0.03 | 1.56 |
| (1,130) | 1:81:A:ASN:N | 1:81:A:ASN:CA | 1:81:A:ASN:C | 1:82:A:ASN:N | 3 | 1.48 | 0.6 | 1.09 |
| (1,167) | 1:101:A:GLY:C | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 3 | 1.33 | 0.26 | 1.24 |
| (1,116) | 1:72:A:ARG:N | 1:72:A:ARG:CA | 1:72:A:ARG:C | 1:73:A:ILE:N | 3 | 1.19 | 0.1 | 1.19 |
| (1,111) | 1:69:A:GLY:C | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 2 | 1.51 | 0.03 | 1.51 |

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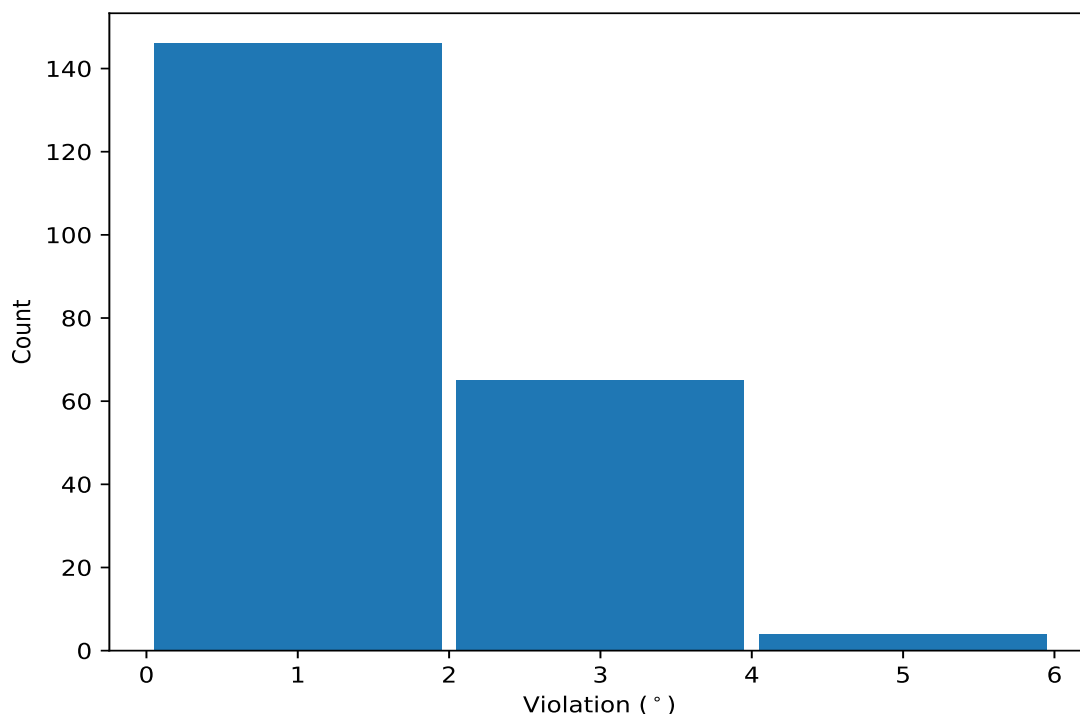
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|---------------|----------------|---------------|---------------|---------------------|------|-----------------|--------|
| (1,190) | 1:114:A:ASP:N | 1:114:A:ASP:CA | 1:114:A:ASP:C | 1:115:A:GLY:N | 2 | 1.48 | 0.35 | 1.48 |
| (1,112) | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 1:71:A:ASN:N | 2 | 1.45 | 0.03 | 1.45 |
| (1,244) | 1:4:A:LYS:N | 1:4:A:LYS:CA | 1:4:A:LYS:CB | 1:4:A:LYS:CG | 2 | 1.42 | 0.14 | 1.42 |
| (1,117) | 1:72:A:ARG:C | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 2 | 1.42 | 0.39 | 1.42 |
| (1,139) | 1:85:A:VAL:C | 1:86:A:ASP:N | 1:86:A:ASP:CA | 1:86:A:ASP:C | 2 | 1.27 | 0.1 | 1.27 |
| (1,186) | 1:112:A:ASP:N | 1:112:A:ASP:CA | 1:112:A:ASP:C | 1:113:A:ALA:N | 2 | 1.24 | 0.14 | 1.24 |
| (1,26) | 1:16:A:SER:N | 1:16:A:SER:CA | 1:16:A:SER:C | 1:17:A:ILE:N | 2 | 1.06 | 0.06 | 1.06 |

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

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

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

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



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

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|---------------|----------------|---------------|----------|---------------|
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 10 | 4.41 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|----------------|----------------|----------------|----------|---------------|
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 2 | 4.33 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 11 | 4.2 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 15 | 4.05 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 5 | 3.79 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 13 | 3.79 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 19 | 3.74 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 17 | 3.73 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 1 | 3.64 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 18 | 3.61 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 7 | 3.51 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 16 | 3.37 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 3 | 3.32 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 8 | 3.29 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 13 | 3.29 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 3 | 3.28 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 16 | 3.2 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 2 | 3.15 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 9 | 3.0 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 3 | 2.95 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 10 | 2.93 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 1 | 2.9 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 11 | 2.78 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 7 | 2.75 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 6 | 2.74 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 14 | 2.72 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 12 | 2.64 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 4 | 2.62 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 13 | 2.59 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 10 | 2.58 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 4 | 2.51 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 12 | 2.5 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 6 | 2.48 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1 | 2.48 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 8 | 2.47 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 17 | 2.47 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 4 | 2.45 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 15 | 2.44 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 15 | 2.41 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 20 | 2.39 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 16 | 2.38 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 1 | 2.37 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 14 | 2.34 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 5 | 2.34 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 2 | 2.34 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 7 | 2.33 |
| (1,130) | 1:81:A:ASN:N | 1:81:A:ASN:CA | 1:81:A:ASN:C | 1:82:A:ASN:N | 3 | 2.32 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 10 | 2.31 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 4 | 2.31 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 18 | 2.29 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 11 | 2.27 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 11 | 2.26 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|----------------|----------------|----------------|----------|---------------|
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 7 | 2.24 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 20 | 2.23 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 6 | 2.18 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 17 | 2.16 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 19 | 2.15 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 10 | 2.11 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 13 | 2.1 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 20 | 2.1 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 3 | 2.08 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 3 | 2.07 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 19 | 2.06 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 19 | 2.06 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 8 | 2.06 |
| (1,312) | 1:130:A:TYR:N | 1:130:A:TYR:CA | 1:130:A:TYR:CB | 1:130:A:TYR:CG | 3 | 2.03 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 19 | 2.03 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 18 | 2.02 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 12 | 2.01 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 8 | 1.99 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 14 | 1.98 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 20 | 1.98 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 18 | 1.97 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 18 | 1.97 |
| (1,264) | 1:40:A:ASP:N | 1:40:A:ASP:CA | 1:40:A:ASP:CB | 1:40:A:ASP:CG | 17 | 1.94 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 5 | 1.92 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 14 | 1.92 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 12 | 1.9 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 7 | 1.87 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 10 | 1.86 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 12 | 1.85 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 6 | 1.84 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 14 | 1.84 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 17 | 1.83 |
| (1,201) | 1:119:A:ILE:C | 1:120:A:ASP:N | 1:120:A:ASP:CA | 1:120:A:ASP:C | 20 | 1.82 |
| (1,190) | 1:114:A:ASP:N | 1:114:A:ASP:CA | 1:114:A:ASP:C | 1:115:A:GLY:N | 8 | 1.82 |
| (1,117) | 1:72:A:ARG:C | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 19 | 1.81 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 11 | 1.8 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 15 | 1.78 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 9 | 1.74 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 13 | 1.73 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 16 | 1.71 |
| (1,167) | 1:101:A:GLY:C | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 15 | 1.68 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 11 | 1.67 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 9 | 1.67 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 5 | 1.66 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 5 | 1.65 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 18 | 1.64 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 13 | 1.64 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 19 | 1.64 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 8 | 1.63 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 2 | 1.61 |
| (1,193) | 1:115:A:GLY:C | 1:116:A:ASN:N | 1:116:A:ASN:CA | 1:116:A:ASN:C | 15 | 1.6 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|----------------|----------------|----------------|----------|---------------|
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 5 | 1.6 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 13 | 1.6 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 10 | 1.6 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 17 | 1.59 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 14 | 1.59 |
| (1,82) | 1:49:A:SER:N | 1:49:A:SER:CA | 1:49:A:SER:C | 1:50:A:ILE:N | 10 | 1.59 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 20 | 1.59 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 16 | 1.59 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 3 | 1.59 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 4 | 1.58 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 15 | 1.58 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 6 | 1.58 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 6 | 1.57 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 8 | 1.57 |
| (1,244) | 1:4:A:LYS:N | 1:4:A:LYS:CA | 1:4:A:LYS:CB | 1:4:A:LYS:CG | 4 | 1.56 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 19 | 1.56 |
| (1,82) | 1:49:A:SER:N | 1:49:A:SER:CA | 1:49:A:SER:C | 1:50:A:ILE:N | 13 | 1.56 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 15 | 1.54 |
| (1,111) | 1:69:A:GLY:C | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 3 | 1.54 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 3 | 1.54 |
| (1,82) | 1:49:A:SER:N | 1:49:A:SER:CA | 1:49:A:SER:C | 1:50:A:ILE:N | 4 | 1.52 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 12 | 1.51 |
| (1,79) | 1:47:A:VAL:C | 1:48:A:ASN:N | 1:48:A:ASN:CA | 1:48:A:ASN:C | 9 | 1.51 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 8 | 1.51 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 10 | 1.5 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 4 | 1.5 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 1 | 1.5 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 5 | 1.48 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 17 | 1.48 |
| (1,112) | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 1:71:A:ASN:N | 11 | 1.48 |
| (1,111) | 1:69:A:GLY:C | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 7 | 1.48 |
| (1,18) | 1:12:A:GLY:N | 1:12:A:GLY:CA | 1:12:A:GLY:C | 1:13:A:GLU:N | 16 | 1.48 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 17 | 1.48 |
| (1,246) | 1:7:A:ASP:N | 1:7:A:ASP:CA | 1:7:A:ASP:CB | 1:7:A:ASP:CG | 8 | 1.46 |
| (1,112) | 1:70:A:LYS:N | 1:70:A:LYS:CA | 1:70:A:LYS:C | 1:71:A:ASN:N | 5 | 1.42 |
| (1,293) | 1:92:A:LEU:N | 1:92:A:LEU:CA | 1:92:A:LEU:CB | 1:92:A:LEU:CG | 6 | 1.39 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 18 | 1.39 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 7 | 1.39 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 15 | 1.37 |
| (1,186) | 1:112:A:ASP:N | 1:112:A:ASP:CA | 1:112:A:ASP:C | 1:113:A:ALA:N | 19 | 1.37 |
| (1,10) | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 1:9:A:ASP:N | 8 | 1.37 |
| (1,139) | 1:85:A:VAL:C | 1:86:A:ASP:N | 1:86:A:ASP:CA | 1:86:A:ASP:C | 17 | 1.36 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 17 | 1.36 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 6 | 1.36 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 17 | 1.35 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 4 | 1.35 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 7 | 1.35 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 14 | 1.34 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 6 | 1.34 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 19 | 1.34 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 14 | 1.32 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|---------------|----------------|----------------|----------------|----------|---------------|
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 19 | 1.32 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 20 | 1.31 |
| (1,116) | 1:72:A:ARG:N | 1:72:A:ARG:CA | 1:72:A:ARG:C | 1:73:A:ILE:N | 12 | 1.31 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 6 | 1.31 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 16 | 1.3 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 10 | 1.3 |
| (1,244) | 1:4:A:LYS:N | 1:4:A:LYS:CA | 1:4:A:LYS:CB | 1:4:A:LYS:CG | 19 | 1.29 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 8 | 1.29 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 1 | 1.29 |
| (1,172) | 1:105:A:ASP:N | 1:105:A:ASP:CA | 1:105:A:ASP:C | 1:106:A:ALA:N | 6 | 1.28 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 1 | 1.27 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 9 | 1.26 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 16 | 1.25 |
| (1,301) | 1:104:A:SER:N | 1:104:A:SER:CA | 1:104:A:SER:CB | 1:104:A:SER:OG | 6 | 1.24 |
| (1,167) | 1:101:A:GLY:C | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 11 | 1.24 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 12 | 1.22 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 20 | 1.22 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 4 | 1.21 |
| (1,116) | 1:72:A:ARG:N | 1:72:A:ARG:CA | 1:72:A:ARG:C | 1:73:A:ILE:N | 8 | 1.19 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 11 | 1.18 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 18 | 1.18 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 7 | 1.18 |
| (1,139) | 1:85:A:VAL:C | 1:86:A:ASP:N | 1:86:A:ASP:CA | 1:86:A:ASP:C | 2 | 1.17 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 17 | 1.17 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 13 | 1.16 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 2 | 1.16 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 11 | 1.16 |
| (1,43) | 1:24:A:SER:C | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 10 | 1.16 |
| (1,76) | 1:46:A:TYR:N | 1:46:A:TYR:CA | 1:46:A:TYR:C | 1:47:A:VAL:N | 3 | 1.15 |
| (1,9) | 1:7:A:ASP:C | 1:8:A:ILE:N | 1:8:A:ILE:CA | 1:8:A:ILE:C | 3 | 1.15 |
| (1,236) | 1:137:A:HIS:N | 1:137:A:HIS:CA | 1:137:A:HIS:C | 1:138:A:LEU:N | 16 | 1.13 |
| (1,190) | 1:114:A:ASP:N | 1:114:A:ASP:CA | 1:114:A:ASP:C | 1:115:A:GLY:N | 19 | 1.13 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 16 | 1.13 |
| (1,78) | 1:47:A:VAL:N | 1:47:A:VAL:CA | 1:47:A:VAL:C | 1:48:A:ASN:N | 8 | 1.12 |
| (1,26) | 1:16:A:SER:N | 1:16:A:SER:CA | 1:16:A:SER:C | 1:17:A:ILE:N | 18 | 1.12 |
| (1,203) | 1:120:A:ASP:C | 1:121:A:GLN:N | 1:121:A:GLN:CA | 1:121:A:GLN:C | 12 | 1.11 |
| (1,186) | 1:112:A:ASP:N | 1:112:A:ASP:CA | 1:112:A:ASP:C | 1:113:A:ALA:N | 4 | 1.1 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 3 | 1.1 |
| (1,251) | 1:15:A:SER:N | 1:15:A:SER:CA | 1:15:A:SER:CB | 1:15:A:SER:OG | 19 | 1.09 |
| (1,130) | 1:81:A:ASN:N | 1:81:A:ASN:CA | 1:81:A:ASN:C | 1:82:A:ASN:N | 15 | 1.09 |
| (1,118) | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 1:74:A:TYR:N | 2 | 1.09 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 9 | 1.09 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 1 | 1.09 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 3 | 1.08 |
| (1,200) | 1:119:A:ILE:N | 1:119:A:ILE:CA | 1:119:A:ILE:C | 1:120:A:ASP:N | 9 | 1.08 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 2 | 1.08 |
| (1,13) | 1:9:A:ASP:C | 1:10:A:GLY:N | 1:10:A:GLY:CA | 1:10:A:GLY:C | 13 | 1.08 |
| (1,167) | 1:101:A:GLY:C | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 19 | 1.07 |
| (1,116) | 1:72:A:ARG:N | 1:72:A:ARG:CA | 1:72:A:ARG:C | 1:73:A:ILE:N | 11 | 1.07 |
| (1,64) | 1:40:A:ASP:N | 1:40:A:ASP:CA | 1:40:A:ASP:C | 1:41:A:VAL:N | 18 | 1.07 |
| (1,125) | 1:78:A:ASP:C | 1:79:A:ILE:N | 1:79:A:ILE:CA | 1:79:A:ILE:C | 5 | 1.05 |

Continued on next page...

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|------------|---------------|----------------|---------------|---------------|-----------------|----------------------|
| (1,117) | 1:72:A:ARG:C | 1:73:A:ILE:N | 1:73:A:ILE:CA | 1:73:A:ILE:C | 17 | 1.03 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 5 | 1.02 |
| (1,130) | 1:81:A:ASN:N | 1:81:A:ASN:CA | 1:81:A:ASN:C | 1:82:A:ASN:N | 20 | 1.02 |
| (1,74) | 1:45:A:GLY:N | 1:45:A:GLY:CA | 1:45:A:GLY:C | 1:46:A:TYR:N | 13 | 1.02 |
| (1,44) | 1:25:A:HIS:N | 1:25:A:HIS:CA | 1:25:A:HIS:C | 1:26:A:LEU:N | 11 | 1.02 |
| (1,168) | 1:102:A:GLN:N | 1:102:A:GLN:CA | 1:102:A:GLN:C | 1:103:A:LEU:N | 10 | 1.01 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 7 | 1.01 |
| (1,69) | 1:42:A:ASP:C | 1:43:A:GLY:N | 1:43:A:GLY:CA | 1:43:A:GLY:C | 20 | 1.01 |
| (1,26) | 1:16:A:SER:N | 1:16:A:SER:CA | 1:16:A:SER:C | 1:17:A:ILE:N | 5 | 1.01 |
| (1,1) | 1:2:A:SER:C | 1:3:A:VAL:N | 1:3:A:VAL:CA | 1:3:A:VAL:C | 19 | 1.0 |