



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 06:25 PM EST

PDB ID : 2LV7
BMRB ID : 18557
Title : Solution structure of Ca²⁺-bound CaBP7 N-terminal domain
Authors : Mccue, H.V.; Patel, P.; Herbert, A.P.; Lian, L.; Burgoyne, R.D.; Haynes, L.P.
Deposited on : 2012-06-29

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

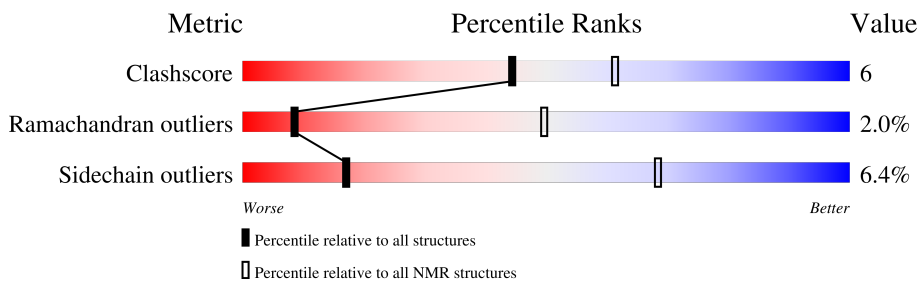
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 89%.

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



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

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

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1 | A | 100 | |

2 Ensemble composition and analysis

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

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

| Well-defined (core) protein residues | | | |
|--------------------------------------|-----------------------|-------------------|--------------|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:35-A:98 (64) | 0.48 | 1 |

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

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

NmrClust was unable to cluster the ensemble.

Error message: Inconsistent models

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1580 atoms, of which 778 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Calcium-binding protein 7.

| Mol | Chain | Residues | Atoms | | | | | Trace | |
|-----|-------|----------|-------|-----|-----|-----|-----|-------|---|
| | | | Total | C | H | N | O | | S |
| 1 | A | 100 | 1578 | 508 | 778 | 129 | 158 | 5 | 0 |

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

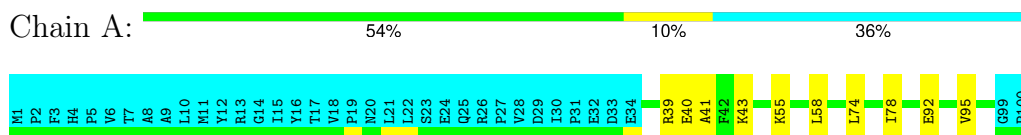
| Mol | Chain | Residues | Atoms | |
|-----|-------|----------|-------|----|
| | | | Total | Ca |
| 2 | A | 2 | 2 | 2 |

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: Calcium-binding protein 7

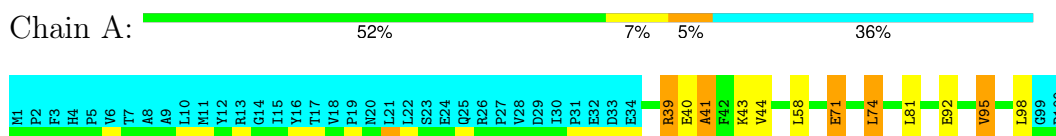


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

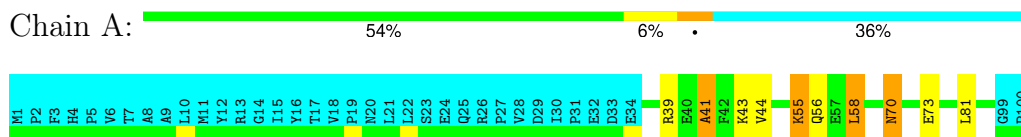
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Calcium-binding protein 7



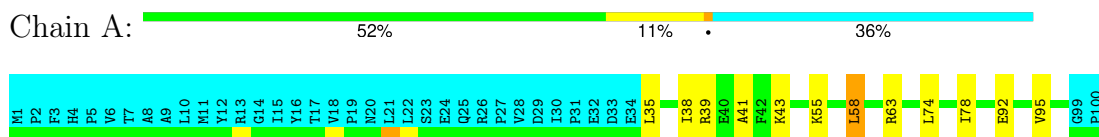
4.2.2 Score per residue for model 2

- Molecule 1: Calcium-binding protein 7



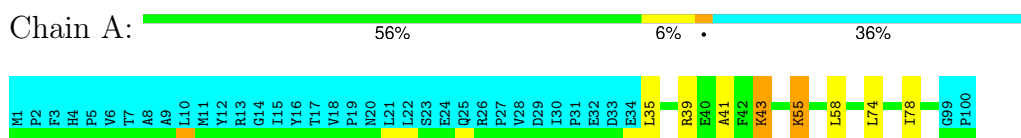
4.2.3 Score per residue for model 3

- Molecule 1: Calcium-binding protein 7



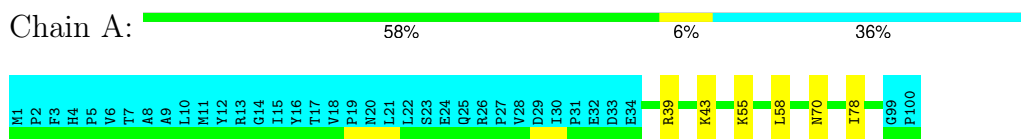
4.2.4 Score per residue for model 4

- Molecule 1: Calcium-binding protein 7



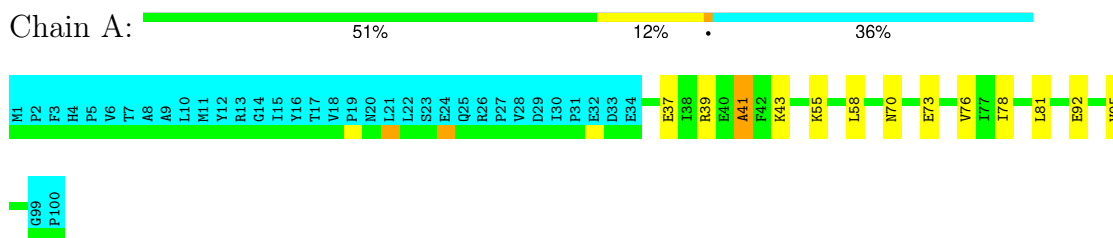
4.2.5 Score per residue for model 5

- Molecule 1: Calcium-binding protein 7



4.2.6 Score per residue for model 6

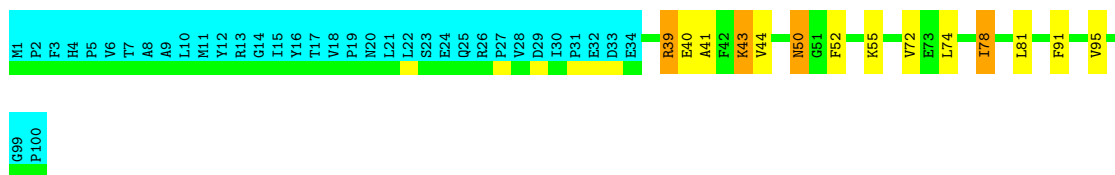
- Molecule 1: Calcium-binding protein 7



4.2.7 Score per residue for model 7

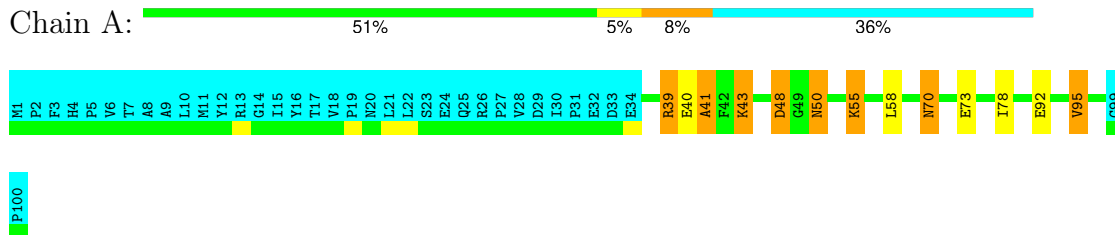
- Molecule 1: Calcium-binding protein 7





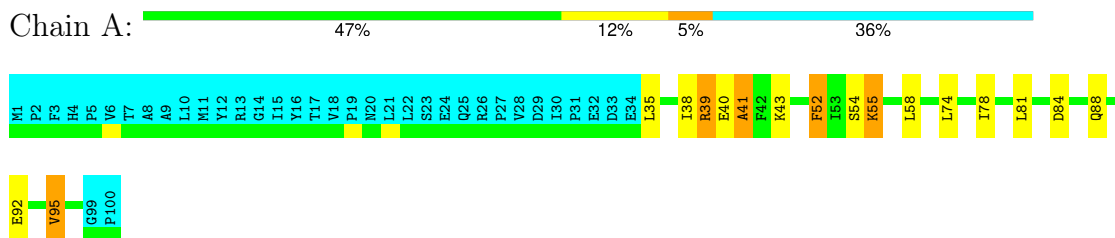
4.2.8 Score per residue for model 8

- Molecule 1: Calcium-binding protein 7



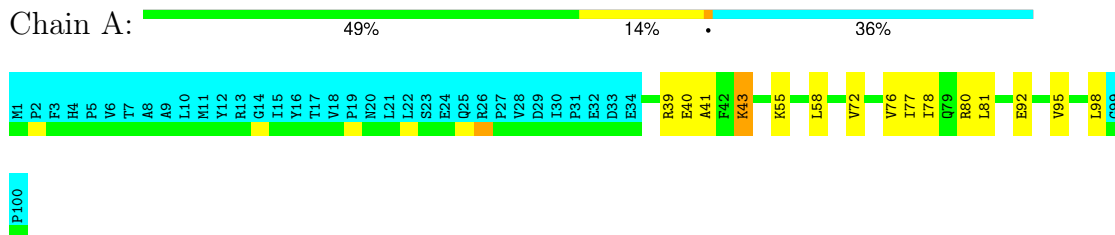
4.2.9 Score per residue for model 9

- Molecule 1: Calcium-binding protein 7



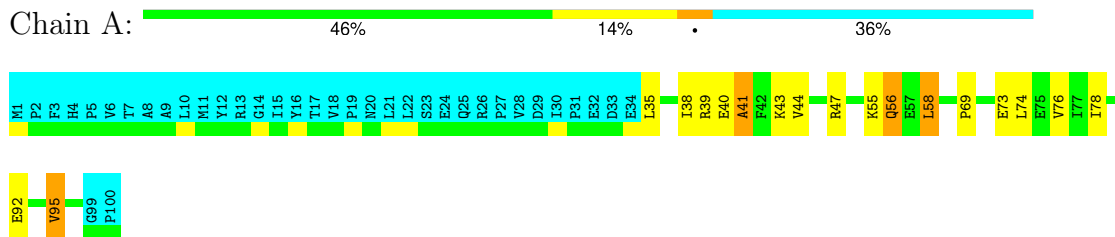
4.2.10 Score per residue for model 10

- Molecule 1: Calcium-binding protein 7



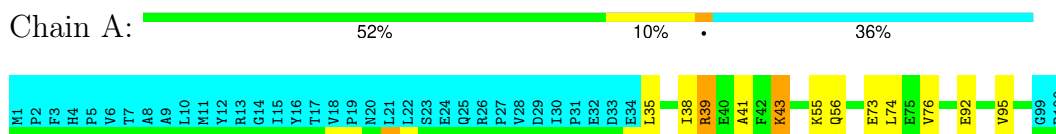
4.2.11 Score per residue for model 11

- Molecule 1: Calcium-binding protein 7



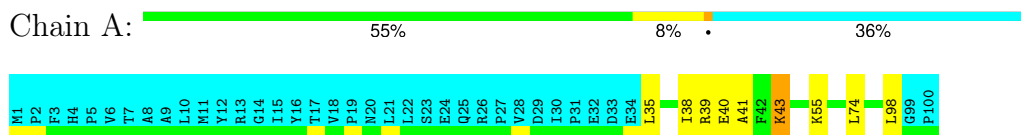
4.2.12 Score per residue for model 12

- Molecule 1: Calcium-binding protein 7



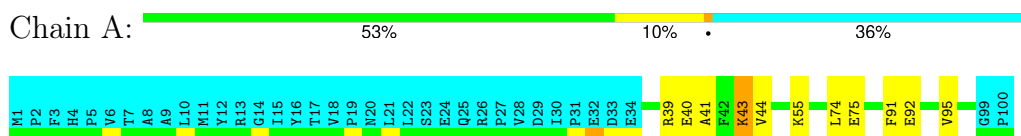
4.2.13 Score per residue for model 13

- Molecule 1: Calcium-binding protein 7



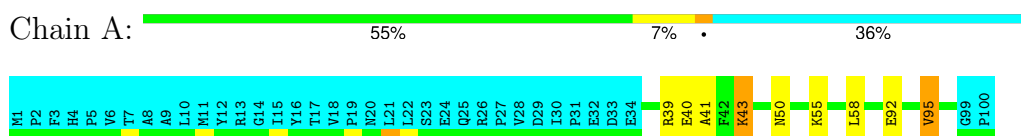
4.2.14 Score per residue for model 14

- Molecule 1: Calcium-binding protein 7



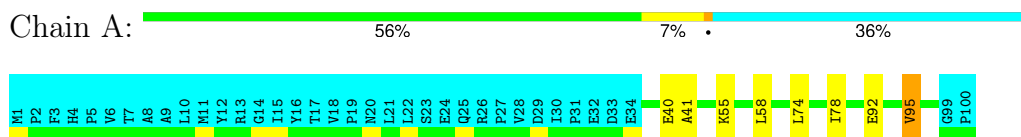
4.2.15 Score per residue for model 15

- Molecule 1: Calcium-binding protein 7



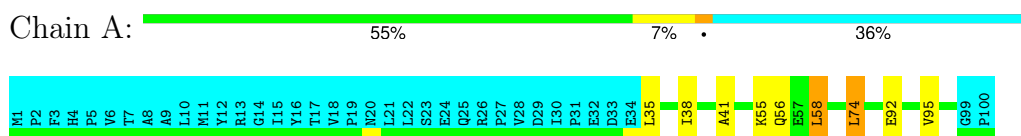
4.2.16 Score per residue for model 16

- Molecule 1: Calcium-binding protein 7



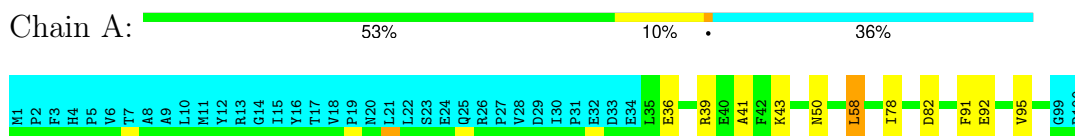
4.2.17 Score per residue for model 17

- Molecule 1: Calcium-binding protein 7



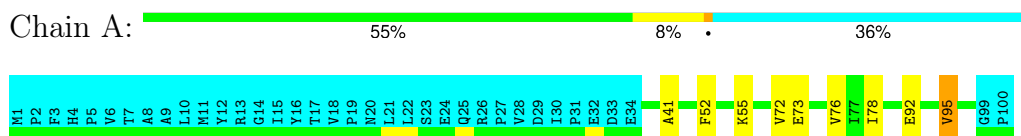
4.2.18 Score per residue for model 18

- Molecule 1: Calcium-binding protein 7



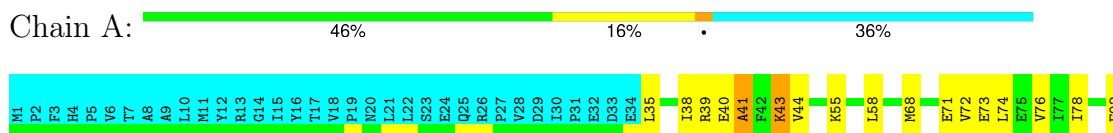
4.2.19 Score per residue for model 19

- Molecule 1: Calcium-binding protein 7



4.2.20 Score per residue for model 20

- Molecule 1: Calcium-binding protein 7





5 Refinement protocol and experimental data overview

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

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

| Software name | Classification | Version |
|---------------|--------------------|---------|
| ARIA | structure solution | |
| ARIA | 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 | 1055 |
| Number of shifts mapped to atoms | 1055 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 89% |

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 | 515 | 498 | 498 | 6±2 |
| All | All | 10340 | 9960 | 9960 | 126 |

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 6.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:54:SER:HA | 1:A:88:GLN:NE2 | 0.63 | 2.08 | 9 | 1 |
| 1:A:39:ARG:HB2 | 1:A:43:LYS:HD2 | 0.56 | 1.76 | 7 | 1 |
| 1:A:39:ARG:HG2 | 1:A:40:GLU:N | 0.56 | 2.16 | 7 | 1 |
| 1:A:92:GLU:O | 1:A:95:VAL:HG22 | 0.55 | 2.02 | 3 | 6 |
| 1:A:92:GLU:O | 1:A:95:VAL:HG12 | 0.51 | 2.05 | 8 | 9 |
| 1:A:91:PHE:O | 1:A:95:VAL:HG13 | 0.50 | 2.06 | 14 | 2 |
| 1:A:55:LYS:HD3 | 1:A:55:LYS:H | 0.50 | 1.66 | 19 | 12 |
| 1:A:58:LEU:HD13 | 1:A:58:LEU:O | 0.50 | 2.07 | 3 | 10 |
| 1:A:55:LYS:HG3 | 1:A:78:ILE:HG13 | 0.48 | 1.85 | 8 | 11 |
| 1:A:55:LYS:HB3 | 1:A:74:LEU:HD13 | 0.48 | 1.84 | 11 | 9 |
| 1:A:35:LEU:HD12 | 1:A:38:ILE:HD12 | 0.48 | 1.85 | 17 | 7 |
| 1:A:39:ARG:HB3 | 1:A:91:PHE:CE1 | 0.47 | 2.44 | 7 | 1 |

Continued on next page...

Continued from previous page...

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|-----------------|-----------------|----------|-------------|--------|-------|
| | | | | Worst | Total |
| 1:A:81:LEU:HD22 | 1:A:81:LEU:N | 0.47 | 2.25 | 2 | 2 |
| 1:A:39:ARG:O | 1:A:43:LYS:HB2 | 0.47 | 2.10 | 7 | 17 |
| 1:A:52:PHE:HB3 | 1:A:88:GLN:HB2 | 0.46 | 1.87 | 9 | 1 |
| 1:A:76:VAL:HG23 | 1:A:77:ILE:HD12 | 0.45 | 1.87 | 10 | 1 |
| 1:A:73:GLU:O | 1:A:76:VAL:HG22 | 0.45 | 2.11 | 12 | 5 |
| 1:A:56:GLN:HA | 1:A:56:GLN:HE21 | 0.45 | 1.71 | 11 | 1 |
| 1:A:41:ALA:O | 1:A:44:VAL:HG22 | 0.44 | 2.11 | 11 | 6 |
| 1:A:70:ASN:HB2 | 1:A:73:GLU:HG2 | 0.44 | 1.88 | 6 | 1 |
| 1:A:48:ASP:HB2 | 1:A:50:ASN:OD1 | 0.44 | 2.12 | 8 | 1 |
| 1:A:55:LYS:HB3 | 1:A:74:LEU:HG | 0.44 | 1.90 | 17 | 2 |
| 1:A:39:ARG:O | 1:A:41:ALA:N | 0.43 | 2.51 | 8 | 7 |
| 1:A:98:LEU:HD23 | 1:A:98:LEU:H | 0.43 | 1.73 | 10 | 1 |
| 1:A:39:ARG:O | 1:A:40:GLU:C | 0.43 | 2.57 | 14 | 1 |
| 1:A:70:ASN:ND2 | 1:A:73:GLU:HG2 | 0.42 | 2.29 | 2 | 2 |
| 1:A:71:GLU:HA | 1:A:74:LEU:HD22 | 0.42 | 1.90 | 1 | 1 |
| 1:A:80:ARG:HE | 1:A:80:ARG:HA | 0.42 | 1.74 | 10 | 1 |
| 1:A:81:LEU:N | 1:A:81:LEU:HD12 | 0.41 | 2.30 | 7 | 1 |
| 1:A:50:ASN:HD22 | 1:A:52:PHE:H | 0.41 | 1.58 | 7 | 1 |
| 1:A:81:LEU:HD12 | 1:A:81:LEU:N | 0.41 | 2.31 | 6 | 2 |
| 1:A:74:LEU:HD12 | 1:A:75:GLU:N | 0.41 | 2.31 | 14 | 1 |
| 1:A:43:LYS:N | 1:A:43:LYS:HE2 | 0.40 | 2.32 | 7 | 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 | 64/100 (64%) | 59±1 (91±2%) | 4±1 (6±2%) | 1±1 (2±1%) | 8 | 50 |
| All | All | 1280/2000 (64%) | 1171 (91%) | 83 (6%) | 26 (2%) | 8 | 50 |

All 3 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 | 41 | ALA | 16 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 40 | GLU | 9 |
| 1 | A | 82 | ASP | 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 | 56/88 (64%) | 52±2 (94±3%) | 4±2 (6±3%) | 17 | 68 |
| All | All | 1120/1760 (64%) | 1048 (94%) | 72 (6%) | 17 | 68 |

All 24 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 | 58 | LEU | 10 |
| 1 | A | 43 | LYS | 9 |
| 1 | A | 95 | VAL | 8 |
| 1 | A | 39 | ARG | 5 |
| 1 | A | 55 | LYS | 4 |
| 1 | A | 56 | GLN | 4 |
| 1 | A | 50 | ASN | 4 |
| 1 | A | 72 | VAL | 4 |
| 1 | A | 70 | ASN | 3 |
| 1 | A | 78 | ILE | 3 |
| 1 | A | 71 | GLU | 2 |
| 1 | A | 74 | LEU | 2 |
| 1 | A | 98 | LEU | 2 |
| 1 | A | 52 | PHE | 2 |
| 1 | A | 63 | ARG | 1 |
| 1 | A | 35 | LEU | 1 |
| 1 | A | 37 | GLU | 1 |
| 1 | A | 48 | ASP | 1 |
| 1 | A | 84 | ASP | 1 |
| 1 | A | 81 | LEU | 1 |
| 1 | A | 47 | ARG | 1 |
| 1 | A | 69 | PRO | 1 |
| 1 | A | 36 | GLU | 1 |

Continued on next page...

Continued from previous page...

| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 68 | MET | 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 oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 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 89% for the well-defined parts and 76% 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 | 1055 |
| Number of shifts mapped to atoms | 1055 |
| 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 |
|------------------------|----------|---------------------------------|-------------------------|
| $^{13}\text{C}_\alpha$ | 86 | -0.20 ± 0.11 | None needed (< 0.5 ppm) |
| $^{13}\text{C}_\beta$ | 77 | 0.13 ± 0.09 | None needed (< 0.5 ppm) |
| $^{13}\text{C}'$ | 87 | -0.20 ± 0.11 | None needed (< 0.5 ppm) |
| ^{15}N | 82 | 0.23 ± 0.22 | 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 89%, i.e. 787 atoms were assigned a chemical shift out of a possible 888. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ^1H | ^{13}C | ^{15}N |
|-----------|---------------|---------------|-----------------|-----------------|
| Backbone | 321/324 (99%) | 130/133 (98%) | 128/128 (100%) | 63/63 (100%) |
| Sidechain | 414/505 (82%) | 282/325 (87%) | 128/161 (80%) | 4/19 (21%) |

Continued on next page...

Continued from previous page...

| | Total | ¹ H | ¹³ C | ¹⁵ N |
|----------|---------------|----------------|-----------------|-----------------|
| Aromatic | 52/59 (88%) | 27/29 (93%) | 25/30 (83%) | 0/0 (—%) |
| Overall | 787/888 (89%) | 439/487 (90%) | 281/319 (88%) | 67/82 (82%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 76%, i.e. 1055 atoms were assigned a chemical shift out of a possible 1380. 0 out of 18 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | ¹ H | ¹³ C | ¹⁵ N |
|-----------|-----------------|----------------|-----------------|-----------------|
| Backbone | 428/494 (87%) | 173/201 (86%) | 173/200 (86%) | 82/93 (88%) |
| Sidechain | 567/791 (72%) | 386/513 (75%) | 175/251 (70%) | 6/27 (22%) |
| Aromatic | 60/95 (63%) | 31/46 (67%) | 29/47 (62%) | 0/2 (0%) |
| Overall | 1055/1380 (76%) | 590/760 (78%) | 377/498 (76%) | 88/122 (72%) |

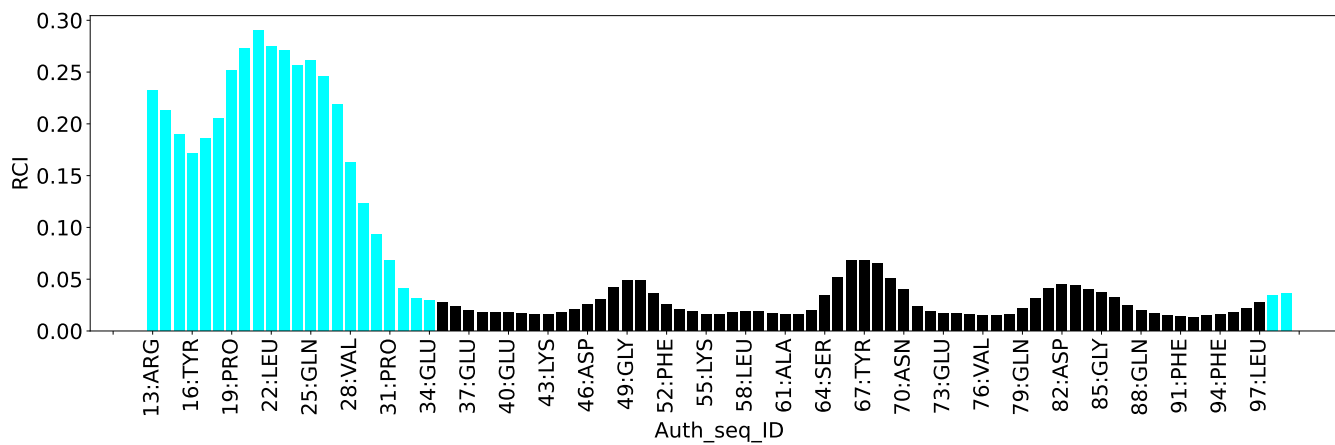
7.1.4 Statistically unusual chemical shifts [i](#)

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 | 1985 |
| Intra-residue ($ i-j =0$) | 422 |
| Sequential ($ i-j =1$) | 602 |
| Medium range ($ i-j >1$ and $ i-j <5$) | 537 |
| Long range ($ i-j \geq 5$) | 392 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 32 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 165 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 21.1 |
| Number of long range restraints per residue ¹ | 3.9 |

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) | 38.4 | 0.2 |
| 0.2-0.5 (Medium) | 78.8 | 0.5 |
| >0.5 (Large) | 95.6 | 4.63 |

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) | 2.5 | 2.52 |
| 10.0-20.0 (Medium) | None | None |
| >20.0 (Large) | None | None |

9 Distance violation analysis

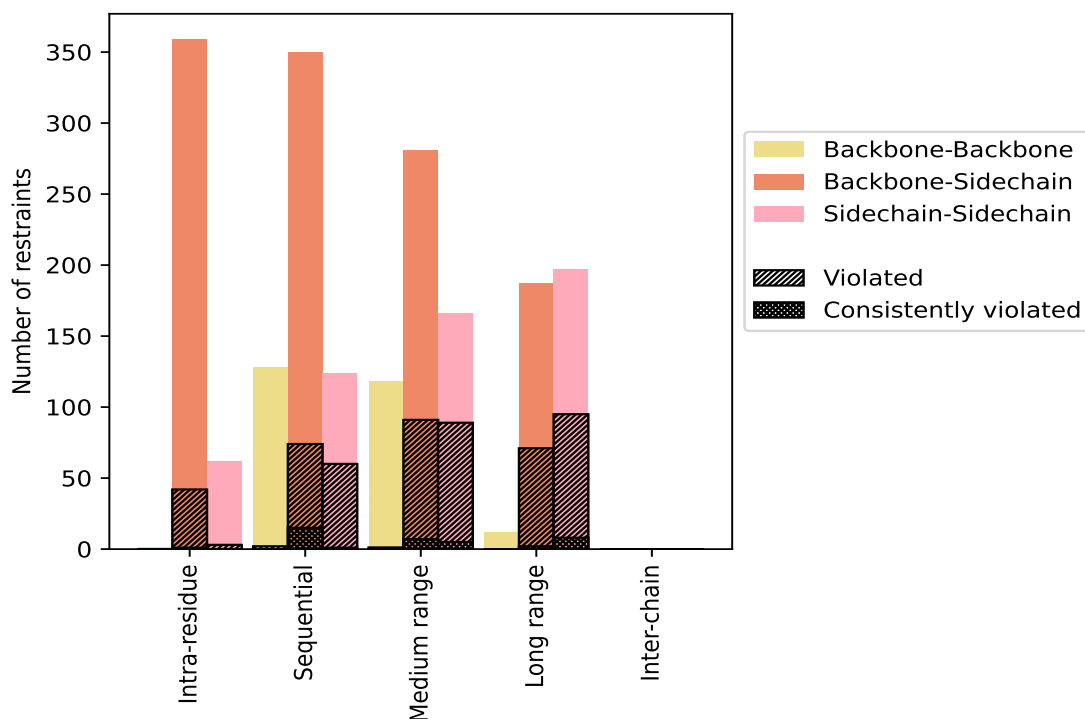
9.1 Summary of distance violations

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

| Restrains type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|-----------------------------------------------------------------------------|-------------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| Intra-residue ($i-j =0$) | 422 | 21.3 | 45 | 10.7 | 2.3 | 1 | 0.2 | 0.1 |
| Backbone-Backbone | 1 | 0.1 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 359 | 18.1 | 42 | 11.7 | 2.1 | 1 | 0.3 | 0.1 |
| Sidechain-Sidechain | 62 | 3.1 | 3 | 4.8 | 0.2 | 0 | 0.0 | 0.0 |
| Sequential ($i-j =1$) | 602 | 30.3 | 136 | 22.6 | 6.9 | 16 | 2.7 | 0.8 |
| Backbone-Backbone | 128 | 6.4 | 2 | 1.6 | 0.1 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 350 | 17.6 | 74 | 21.1 | 3.7 | 15 | 4.3 | 0.8 |
| Sidechain-Sidechain | 124 | 6.2 | 60 | 48.4 | 3.0 | 1 | 0.8 | 0.1 |
| Medium range ($i-j >1$ & $i-j <5$) | 537 | 27.1 | 178 | 33.1 | 9.0 | 13 | 2.4 | 0.7 |
| Backbone-Backbone | 118 | 5.9 | 1 | 0.8 | 0.1 | 1 | 0.8 | 0.1 |
| Backbone-Sidechain | 253 | 12.7 | 88 | 34.8 | 4.4 | 7 | 2.8 | 0.4 |
| Sidechain-Sidechain | 166 | 8.4 | 89 | 53.6 | 4.5 | 5 | 3.0 | 0.3 |
| Long range ($i-j \geq 5$) | 392 | 19.7 | 166 | 42.3 | 8.4 | 10 | 2.6 | 0.5 |
| Backbone-Backbone | 12 | 0.6 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 183 | 9.2 | 71 | 38.8 | 3.6 | 2 | 1.1 | 0.1 |
| Sidechain-Sidechain | 197 | 9.9 | 95 | 48.2 | 4.8 | 8 | 4.1 | 0.4 |
| 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 | 32 | 1.6 | 3 | 9.4 | 0.2 | 0 | 0.0 | 0.0 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 1985 | 100.0 | 528 | 26.6 | 26.6 | 40 | 2.0 | 2.0 |
| Backbone-Backbone | 259 | 13.0 | 3 | 1.2 | 0.2 | 1 | 0.4 | 0.1 |
| Backbone-Sidechain | 1177 | 59.3 | 278 | 23.6 | 14.0 | 25 | 2.1 | 1.3 |
| Sidechain-Sidechain | 549 | 27.7 | 247 | 45.0 | 12.4 | 14 | 2.6 | 0.7 |

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 | 16 | 64 | 77 | 84 | 0 | 241 | 0.73 | 4.3 | 0.73 | 0.47 |
| 2 | 15 | 60 | 80 | 79 | 0 | 234 | 0.72 | 3.12 | 0.66 | 0.48 |
| 3 | 14 | 57 | 67 | 77 | 0 | 215 | 0.62 | 4.07 | 0.62 | 0.44 |
| 4 | 12 | 59 | 76 | 61 | 0 | 208 | 0.59 | 2.85 | 0.48 | 0.43 |
| 5 | 16 | 57 | 69 | 76 | 0 | 218 | 0.69 | 4.01 | 0.67 | 0.47 |
| 6 | 17 | 52 | 78 | 65 | 0 | 212 | 0.71 | 3.92 | 0.77 | 0.44 |
| 7 | 11 | 53 | 78 | 77 | 0 | 219 | 0.56 | 2.65 | 0.45 | 0.41 |
| 8 | 14 | 62 | 73 | 71 | 0 | 220 | 0.76 | 3.78 | 0.75 | 0.5 |
| 9 | 16 | 55 | 73 | 73 | 0 | 217 | 0.7 | 4.21 | 0.75 | 0.44 |
| 10 | 13 | 55 | 67 | 58 | 0 | 193 | 0.75 | 4.0 | 0.72 | 0.46 |

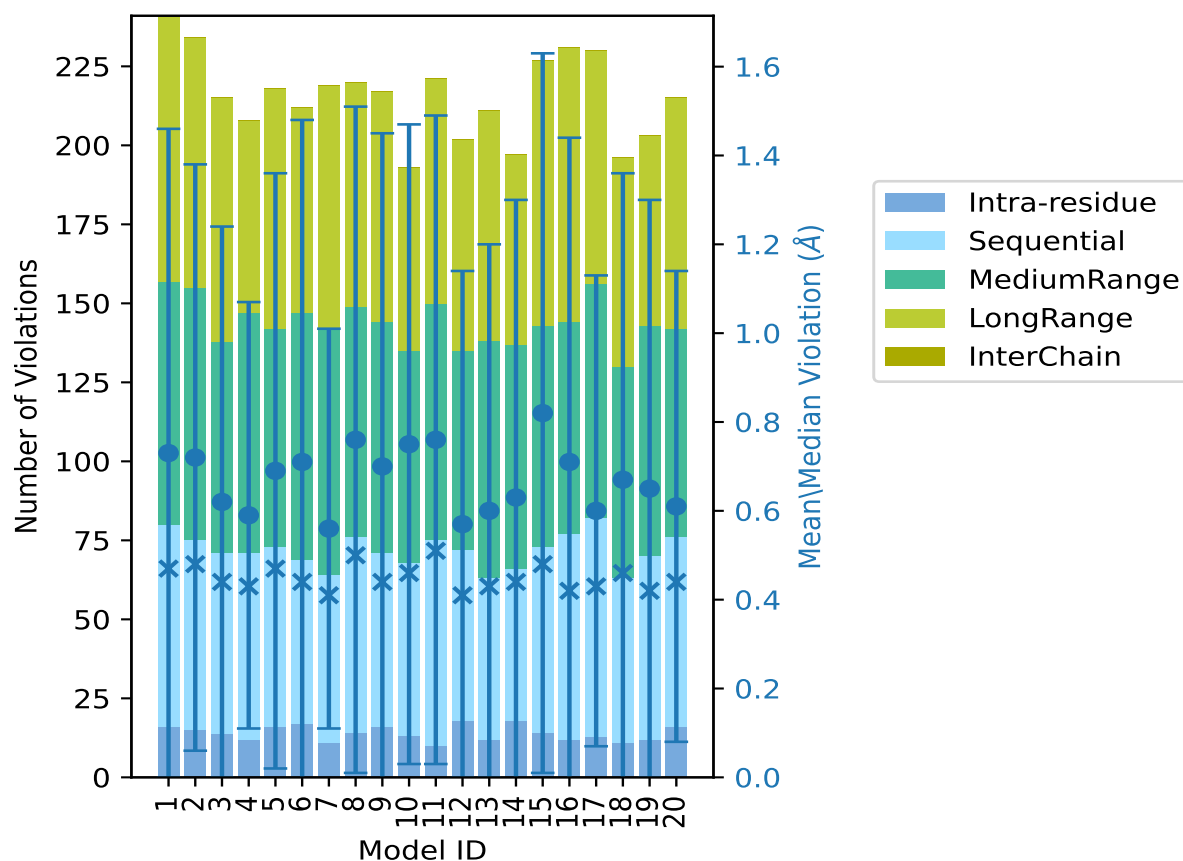
Continued on next page...

Continued from previous page...

| Model ID | Number of violations | | | | | Total | Mean (Å) | Max (Å) | SD ⁶ (Å) | Median (Å) |
|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-------|----------|---------|---------------------|------------|
| | IR ¹ | SQ ² | MR ³ | LR ⁴ | IC ⁵ | | | | | |
| 11 | 10 | 65 | 75 | 71 | 0 | 221 | 0.76 | 3.83 | 0.73 | 0.51 |
| 12 | 18 | 54 | 63 | 67 | 0 | 202 | 0.57 | 4.35 | 0.57 | 0.41 |
| 13 | 12 | 51 | 75 | 73 | 0 | 211 | 0.6 | 4.63 | 0.6 | 0.43 |
| 14 | 18 | 48 | 71 | 60 | 0 | 197 | 0.63 | 4.5 | 0.67 | 0.44 |
| 15 | 14 | 59 | 70 | 84 | 0 | 227 | 0.82 | 4.03 | 0.81 | 0.48 |
| 16 | 12 | 65 | 67 | 87 | 0 | 231 | 0.71 | 3.7 | 0.73 | 0.42 |
| 17 | 13 | 69 | 74 | 74 | 0 | 230 | 0.6 | 2.7 | 0.53 | 0.43 |
| 18 | 11 | 52 | 67 | 66 | 0 | 196 | 0.67 | 4.54 | 0.69 | 0.46 |
| 19 | 12 | 58 | 73 | 60 | 0 | 203 | 0.65 | 3.38 | 0.65 | 0.42 |
| 20 | 16 | 60 | 66 | 73 | 0 | 215 | 0.61 | 2.98 | 0.53 | 0.44 |

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

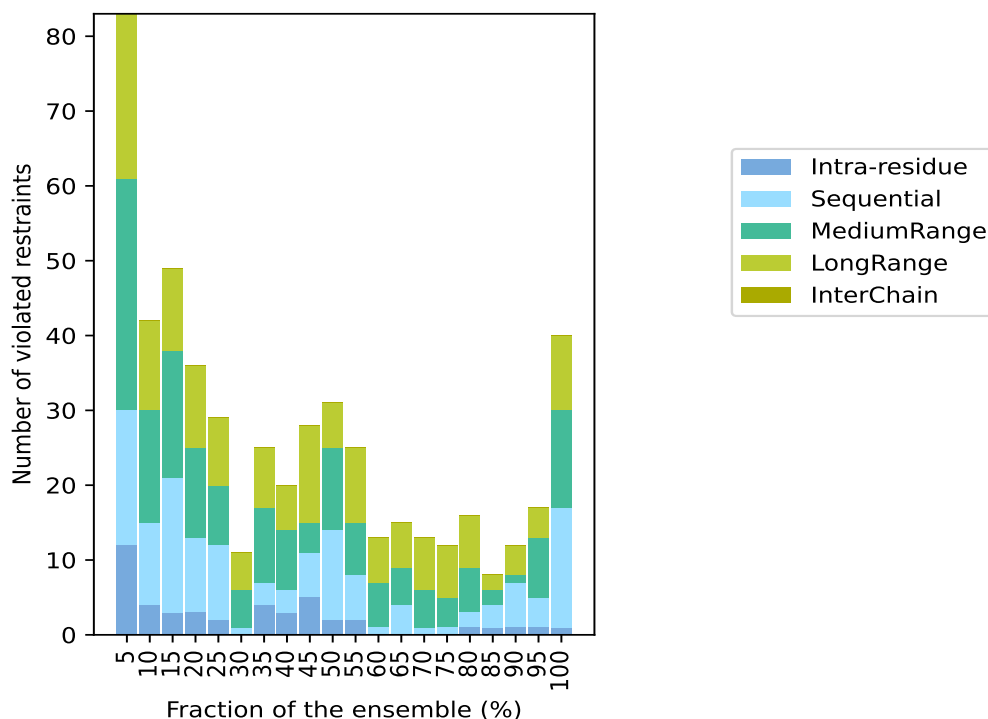
9.3 Distance violation statistics for the ensemble

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, 1428(IR:377, SQ:466, MR:359, LR:226, 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 | % |
| 12 | 18 | 31 | 22 | 0 | 83 | 1 | 5.0 |
| 4 | 11 | 15 | 12 | 0 | 42 | 2 | 10.0 |
| 3 | 18 | 17 | 11 | 0 | 49 | 3 | 15.0 |
| 3 | 10 | 12 | 11 | 0 | 36 | 4 | 20.0 |
| 2 | 10 | 8 | 9 | 0 | 29 | 5 | 25.0 |
| 0 | 1 | 5 | 5 | 0 | 11 | 6 | 30.0 |
| 4 | 3 | 10 | 8 | 0 | 25 | 7 | 35.0 |
| 3 | 3 | 8 | 6 | 0 | 20 | 8 | 40.0 |
| 5 | 6 | 4 | 13 | 0 | 28 | 9 | 45.0 |
| 2 | 12 | 11 | 6 | 0 | 31 | 10 | 50.0 |
| 2 | 6 | 7 | 10 | 0 | 25 | 11 | 55.0 |
| 0 | 1 | 6 | 6 | 0 | 13 | 12 | 60.0 |
| 0 | 4 | 5 | 6 | 0 | 15 | 13 | 65.0 |
| 0 | 1 | 5 | 7 | 0 | 13 | 14 | 70.0 |
| 0 | 1 | 4 | 7 | 0 | 12 | 15 | 75.0 |
| 1 | 2 | 6 | 7 | 0 | 16 | 16 | 80.0 |
| 1 | 3 | 2 | 2 | 0 | 8 | 17 | 85.0 |
| 1 | 6 | 1 | 4 | 0 | 12 | 18 | 90.0 |
| 1 | 4 | 8 | 4 | 0 | 17 | 19 | 95.0 |
| 1 | 16 | 13 | 10 | 0 | 40 | 20 | 100.0 |

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

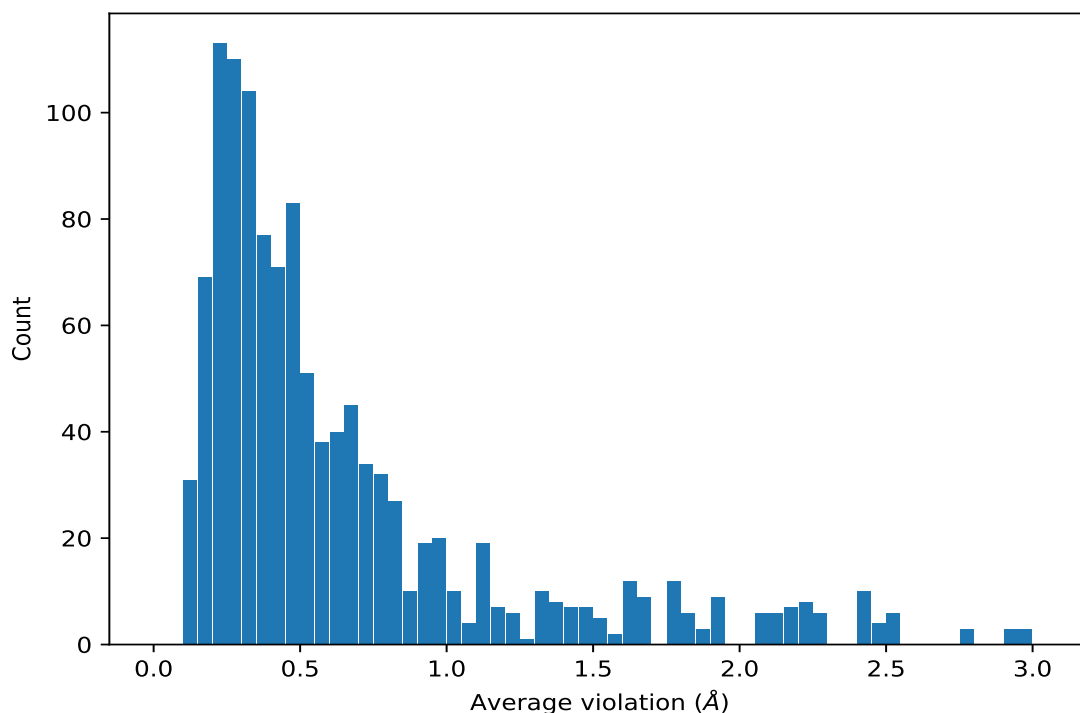
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 20 | 1.82 | 1.24 | 2.44 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 20 | 1.82 | 1.24 | 2.44 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 20 | 1.82 | 1.24 | 2.44 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 20 | 1.66 | 0.79 | 2.09 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 20 | 1.66 | 0.79 | 2.09 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 20 | 1.66 | 0.79 | 2.09 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 20 | 1.57 | 0.18 | 1.63 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 20 | 1.44 | 0.27 | 1.39 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 20 | 1.34 | 0.9 | 1.46 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 20 | 1.34 | 0.9 | 1.46 |
| (1,1376) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HG3 | 20 | 1.34 | 0.9 | 1.46 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 20 | 1.31 | 0.35 | 1.27 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 20 | 1.31 | 0.19 | 1.34 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD11 | 20 | 1.31 | 0.19 | 1.34 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 20 | 1.31 | 0.19 | 1.34 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD12 | 20 | 1.31 | 0.19 | 1.34 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD13 | 20 | 1.31 | 0.19 | 1.34 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD13 | 20 | 1.31 | 0.19 | 1.34 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 20 | 1.15 | 0.09 | 1.14 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 20 | 1.12 | 0.09 | 1.15 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 20 | 1.12 | 0.09 | 1.15 |
| (1,372) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HB3 | 20 | 1.12 | 0.09 | 1.15 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 20 | 1.11 | 0.26 | 1.2 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 20 | 1.1 | 0.24 | 1.12 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 20 | 1.1 | 0.24 | 1.12 |
| (1,1042) | 1:53:A:ILE:HD12 | 1:58:A:LEU:HB3 | 20 | 1.1 | 0.24 | 1.12 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 20 | 1.08 | 0.34 | 1.1 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 20 | 1.08 | 0.34 | 1.1 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 20 | 1.08 | 0.34 | 1.1 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 20 | 1.07 | 0.15 | 1.08 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 20 | 0.99 | 0.41 | 1.0 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 20 | 0.99 | 0.41 | 1.0 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG21 | 20 | 0.99 | 0.41 | 1.0 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD13 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD13 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD12 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD12 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD23 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD21 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD11 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD22 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD21 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD12 | 20 | 0.97 | 0.36 | 1.0 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD13 | 20 | 0.97 | 0.36 | 1.0 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 20 | 0.96 | 0.2 | 0.98 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 20 | 0.96 | 0.2 | 0.98 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 20 | 0.96 | 0.2 | 0.98 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 20 | 0.95 | 0.13 | 0.96 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD1 | 20 | 0.95 | 0.13 | 0.96 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 20 | 0.86 | 0.23 | 0.94 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 20 | 0.86 | 0.23 | 0.94 |
| (1,358) | 1:65:A:LEU:HD11 | 1:63:A:ARG:H | 20 | 0.86 | 0.23 | 0.94 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 20 | 0.85 | 0.3 | 0.85 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 20 | 0.85 | 0.3 | 0.85 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 20 | 0.84 | 0.17 | 0.82 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 20 | 0.84 | 0.17 | 0.82 |
| (1,904) | 1:38:A:ILE:HG22 | 1:35:A:LEU:H | 20 | 0.84 | 0.17 | 0.82 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 20 | 0.83 | 0.12 | 0.82 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 20 | 0.82 | 0.28 | 0.88 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 20 | 0.82 | 0.28 | 0.88 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG23 | 20 | 0.82 | 0.28 | 0.88 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD22 | 20 | 0.81 | 0.18 | 0.86 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 20 | 0.81 | 0.18 | 0.86 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 20 | 0.81 | 0.18 | 0.86 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD21 | 20 | 0.81 | 0.18 | 0.86 |
| (1,523) | 1:97:A:LEU:HD12 | 1:96:A:THR:H | 20 | 0.81 | 0.18 | 0.86 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD23 | 20 | 0.81 | 0.18 | 0.86 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 20 | 0.77 | 0.07 | 0.79 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 20 | 0.74 | 0.15 | 0.73 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 20 | 0.74 | 0.15 | 0.73 |
| (1,660) | 1:53:A:ILE:HD11 | 1:52:A:PHE:H | 20 | 0.74 | 0.15 | 0.73 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 20 | 0.71 | 0.18 | 0.78 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD22 | 20 | 0.49 | 0.09 | 0.52 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 20 | 0.49 | 0.09 | 0.52 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 20 | 0.49 | 0.09 | 0.52 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 20 | 0.48 | 0.15 | 0.46 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 20 | 0.47 | 0.01 | 0.48 |
| (1,205) | 1:35:A:LEU:HD11 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,205) | 1:35:A:LEU:HD21 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,205) | 1:35:A:LEU:HD23 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,205) | 1:35:A:LEU:HD22 | 1:35:A:LEU:H | 20 | 0.46 | 0.1 | 0.48 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 20 | 0.4 | 0.06 | 0.42 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 20 | 0.38 | 0.08 | 0.4 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 20 | 0.38 | 0.08 | 0.4 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 20 | 0.38 | 0.08 | 0.4 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 20 | 0.38 | 0.03 | 0.38 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 20 | 0.38 | 0.03 | 0.38 |
| (1,1050) | 1:53:A:ILE:HD12 | 1:45:A:PHE:HD2 | 20 | 0.38 | 0.03 | 0.38 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 20 | 0.36 | 0.07 | 0.38 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 20 | 0.36 | 0.07 | 0.38 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 20 | 0.36 | 0.07 | 0.38 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 20 | 0.3 | 0.05 | 0.3 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 20 | 0.3 | 0.05 | 0.3 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 20 | 0.3 | 0.05 | 0.3 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 20 | 0.29 | 0.09 | 0.3 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 20 | 0.27 | 0.02 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 20 | 0.27 | 0.02 | 0.27 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 20 | 0.27 | 0.02 | 0.27 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 20 | 0.24 | 0.05 | 0.24 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 20 | 0.21 | 0.04 | 0.22 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 20 | 0.18 | 0.02 | 0.18 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD13 | 19 | 2.22 | 1.31 | 2.59 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 19 | 2.22 | 1.31 | 2.59 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD12 | 19 | 2.22 | 1.31 | 2.59 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD11 | 19 | 2.22 | 1.31 | 2.59 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD13 | 19 | 2.22 | 1.31 | 2.59 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 19 | 1.5 | 0.23 | 1.49 |
| (1,478) | 1:86:A:ASP:HB3 | 1:88:A:GLN:HG2 | 19 | 1.5 | 0.23 | 1.49 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 19 | 1.39 | 0.13 | 1.38 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 19 | 1.18 | 0.12 | 1.21 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 19 | 1.18 | 0.12 | 1.21 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB1 | 19 | 1.18 | 0.12 | 1.21 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 19 | 0.83 | 0.12 | 0.84 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 19 | 0.77 | 0.05 | 0.77 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 19 | 0.77 | 0.05 | 0.77 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 19 | 0.77 | 0.05 | 0.77 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 19 | 0.75 | 0.22 | 0.76 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 19 | 0.75 | 0.22 | 0.76 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 19 | 0.75 | 0.22 | 0.76 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 19 | 0.71 | 0.23 | 0.79 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 19 | 0.62 | 0.25 | 0.65 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG21 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG22 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG23 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG23 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG21 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG21 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG23 | 19 | 0.56 | 0.08 | 0.55 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 19 | 0.53 | 0.1 | 0.57 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 19 | 0.53 | 0.1 | 0.57 |
| (1,1034) | 1:53:A:ILE:HD11 | 1:39:A:ARG:HA | 19 | 0.53 | 0.1 | 0.57 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 19 | 0.51 | 0.07 | 0.49 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 19 | 0.49 | 0.07 | 0.5 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 19 | 0.49 | 0.07 | 0.5 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG22 | 19 | 0.49 | 0.07 | 0.5 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 19 | 0.47 | 0.08 | 0.46 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 19 | 0.46 | 0.12 | 0.46 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 19 | 0.46 | 0.12 | 0.46 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 19 | 0.46 | 0.12 | 0.46 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 19 | 0.46 | 0.14 | 0.5 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 19 | 0.46 | 0.14 | 0.5 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD11 | 19 | 0.46 | 0.14 | 0.5 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG21 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG23 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG23 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG22 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG21 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG21 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG22 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG22 | 19 | 0.28 | 0.12 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG23 | 19 | 0.28 | 0.12 | 0.25 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 19 | 0.12 | 0.01 | 0.12 |
| (1,1916) | 1:21:A:LEU:HD21 | 1:19:A:PRO:HB3 | 18 | 2.98 | 1.29 | 3.02 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 18 | 2.98 | 1.29 | 3.02 |
| (1,1916) | 1:21:A:LEU:HD23 | 1:19:A:PRO:HB3 | 18 | 2.98 | 1.29 | 3.02 |
| (1,1333) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HA | 18 | 1.91 | 1.35 | 2.48 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 18 | 1.91 | 1.35 | 2.48 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 18 | 1.91 | 1.35 | 2.48 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 18 | 1.5 | 1.16 | 1.92 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 18 | 1.5 | 1.16 | 1.92 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 18 | 1.5 | 1.16 | 1.92 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD1 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD1 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD1 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 18 | 1.03 | 0.33 | 1.01 |
| (1,213) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD1 | 18 | 1.03 | 0.33 | 1.01 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 18 | 0.67 | 0.04 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 18 | 0.67 | 0.04 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD13 | 18 | 0.67 | 0.04 | 0.68 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE3 | 18 | 0.65 | 0.19 | 0.69 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 18 | 0.65 | 0.19 | 0.69 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 18 | 0.65 | 0.19 | 0.69 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE3 | 18 | 0.65 | 0.19 | 0.69 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE2 | 18 | 0.65 | 0.19 | 0.69 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE3 | 18 | 0.65 | 0.19 | 0.69 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 18 | 0.55 | 0.05 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 18 | 0.55 | 0.05 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD13 | 18 | 0.55 | 0.05 | 0.57 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD22 | 18 | 0.54 | 0.13 | 0.57 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 18 | 0.54 | 0.13 | 0.57 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 18 | 0.54 | 0.13 | 0.57 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD22 | 18 | 0.41 | 0.07 | 0.44 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 18 | 0.41 | 0.07 | 0.44 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD21 | 18 | 0.41 | 0.07 | 0.44 |
| (1,529) | 1:97:A:LEU:HD11 | 1:98:A:LEU:H | 18 | 0.41 | 0.07 | 0.44 |
| (1,529) | 1:97:A:LEU:HD12 | 1:98:A:LEU:H | 18 | 0.41 | 0.07 | 0.44 |
| (1,529) | 1:97:A:LEU:HD13 | 1:98:A:LEU:H | 18 | 0.41 | 0.07 | 0.44 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 18 | 0.41 | 0.18 | 0.38 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD22 | 18 | 0.39 | 0.07 | 0.41 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 18 | 0.39 | 0.07 | 0.41 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 18 | 0.39 | 0.07 | 0.41 |
| (1,370) | 1:65:A:LEU:HD22 | 1:66:A:GLY:H | 18 | 0.17 | 0.03 | 0.17 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 18 | 0.17 | 0.03 | 0.17 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 18 | 0.17 | 0.03 | 0.17 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 17 | 0.73 | 0.33 | 0.81 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 17 | 0.73 | 0.33 | 0.81 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 17 | 0.73 | 0.33 | 0.81 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 17 | 0.73 | 0.33 | 0.81 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 17 | 0.73 | 0.33 | 0.81 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 17 | 0.73 | 0.33 | 0.81 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 17 | 0.53 | 0.21 | 0.63 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 17 | 0.51 | 0.27 | 0.52 |
| (1,36) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HE2 | 17 | 0.51 | 0.27 | 0.52 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 17 | 0.44 | 0.02 | 0.43 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 17 | 0.41 | 0.13 | 0.44 |
| (1,685) | 1:53:A:ILE:HD12 | 1:54:A:SER:H | 17 | 0.41 | 0.13 | 0.44 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 17 | 0.41 | 0.13 | 0.44 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 17 | 0.34 | 0.12 | 0.33 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 17 | 0.34 | 0.12 | 0.33 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG21 | 17 | 0.34 | 0.12 | 0.33 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 17 | 0.22 | 0.06 | 0.2 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 17 | 0.22 | 0.06 | 0.2 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG12 | 17 | 0.22 | 0.06 | 0.2 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 17 | 0.18 | 0.02 | 0.18 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 17 | 0.18 | 0.02 | 0.18 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG23 | 17 | 0.18 | 0.02 | 0.18 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD13 | 16 | 2.12 | 1.46 | 2.74 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD11 | 16 | 2.12 | 1.46 | 2.74 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD13 | 16 | 2.12 | 1.46 | 2.74 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD11 | 16 | 2.12 | 1.46 | 2.74 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD12 | 16 | 2.12 | 1.46 | 2.74 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD12 | 16 | 2.12 | 1.46 | 2.74 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD23 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD22 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD22 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD23 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD23 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD21 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD22 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD21 | 16 | 1.62 | 0.93 | 2.05 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD21 | 16 | 1.62 | 1.09 | 1.32 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 16 | 1.62 | 1.09 | 1.32 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD23 | 16 | 1.62 | 1.09 | 1.32 |
| (1,346) | 1:74:A:LEU:HD21 | 1:58:A:LEU:H | 16 | 0.77 | 0.14 | 0.8 |
| (1,346) | 1:74:A:LEU:HD23 | 1:58:A:LEU:H | 16 | 0.77 | 0.14 | 0.8 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 16 | 0.77 | 0.14 | 0.8 |
| (1,1127) | 1:74:A:LEU:HD13 | 1:70:A:ASN:HA | 16 | 0.66 | 0.15 | 0.73 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 16 | 0.66 | 0.15 | 0.73 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 16 | 0.66 | 0.15 | 0.73 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 16 | 0.56 | 0.4 | 0.44 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 16 | 0.47 | 0.18 | 0.46 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 16 | 0.47 | 0.18 | 0.46 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 16 | 0.47 | 0.18 | 0.46 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 16 | 0.46 | 0.25 | 0.44 |
| (1,493) | 1:89:A:VAL:HG12 | 1:93:A:GLU:HG2 | 16 | 0.46 | 0.25 | 0.44 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 16 | 0.46 | 0.25 | 0.44 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG12 | 16 | 0.46 | 0.25 | 0.44 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 16 | 0.46 | 0.22 | 0.44 |
| (1,188) | 1:30:A:ILE:HG13 | 1:34:A:GLU:HB2 | 16 | 0.46 | 0.22 | 0.44 |
| (1,188) | 1:30:A:ILE:HG12 | 1:34:A:GLU:HB2 | 16 | 0.46 | 0.22 | 0.44 |
| (1,510) | 1:97:A:LEU:HD11 | 1:93:A:GLU:HA | 16 | 0.45 | 0.25 | 0.46 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 16 | 0.45 | 0.25 | 0.46 |
| (1,510) | 1:97:A:LEU:HD12 | 1:93:A:GLU:HA | 16 | 0.45 | 0.25 | 0.46 |
| (1,510) | 1:93:A:GLU:HA | 1:97:A:LEU:HD23 | 16 | 0.45 | 0.25 | 0.46 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD12 | 16 | 0.34 | 0.09 | 0.35 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 16 | 0.34 | 0.09 | 0.35 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 16 | 0.34 | 0.09 | 0.35 |
| (1,623) | 1:53:A:ILE:HD13 | 1:45:A:PHE:H | 16 | 0.29 | 0.11 | 0.28 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 16 | 0.29 | 0.11 | 0.28 |
| (1,623) | 1:53:A:ILE:HD11 | 1:45:A:PHE:H | 16 | 0.29 | 0.11 | 0.28 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 16 | 0.28 | 0.05 | 0.3 |
| (1,363) | 1:64:A:SER:HA | 1:63:A:ARG:HD2 | 16 | 0.28 | 0.05 | 0.3 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 16 | 0.25 | 0.09 | 0.22 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 16 | 0.25 | 0.09 | 0.22 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 16 | 0.25 | 0.09 | 0.22 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG13 | 16 | 0.24 | 0.1 | 0.24 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 16 | 0.24 | 0.1 | 0.24 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG12 | 16 | 0.24 | 0.1 | 0.24 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG11 | 16 | 0.24 | 0.1 | 0.24 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG12 | 16 | 0.24 | 0.1 | 0.24 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 16 | 0.15 | 0.02 | 0.16 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 15 | 1.66 | 1.04 | 1.42 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD12 | 15 | 1.66 | 1.04 | 1.42 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD11 | 15 | 1.66 | 1.04 | 1.42 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD11 | 15 | 1.66 | 1.04 | 1.42 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD13 | 15 | 1.66 | 1.04 | 1.42 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD12 | 15 | 1.66 | 1.04 | 1.42 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 15 | 1.21 | 0.76 | 1.45 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 15 | 1.21 | 0.76 | 1.45 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 15 | 1.21 | 0.76 | 1.45 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 15 | 0.73 | 0.25 | 0.73 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 15 | 0.73 | 0.25 | 0.73 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE21 | 15 | 0.73 | 0.25 | 0.73 |
| (1,337) | 1:56:A:GLN:HE21 | 1:75:A:GLU:HG2 | 15 | 0.73 | 0.25 | 0.73 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD21 | 15 | 0.72 | 0.04 | 0.73 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD22 | 15 | 0.72 | 0.04 | 0.73 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 15 | 0.72 | 0.04 | 0.73 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 15 | 0.64 | 0.25 | 0.65 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 15 | 0.64 | 0.25 | 0.65 |
| (1,844) | 1:78:A:ILE:HG23 | 1:85:A:GLY:H | 15 | 0.64 | 0.25 | 0.65 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 15 | 0.4 | 0.18 | 0.4 |
| (1,1366) | 1:44:A:VAL:HG11 | 1:43:A:LYS:HE2 | 15 | 0.37 | 0.52 | 0.19 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 15 | 0.37 | 0.52 | 0.19 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 15 | 0.37 | 0.52 | 0.19 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 15 | 0.36 | 0.14 | 0.35 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 15 | 0.36 | 0.14 | 0.35 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 15 | 0.34 | 0.18 | 0.27 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 15 | 0.3 | 0.14 | 0.27 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 15 | 0.3 | 0.14 | 0.27 |
| (1,1032) | 1:53:A:ILE:HD11 | 1:46:A:ASP:HA | 15 | 0.3 | 0.14 | 0.27 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 15 | 0.23 | 0.07 | 0.21 |
| (1,1089) | 1:53:A:ILE:HG22 | 1:46:A:ASP:H | 15 | 0.23 | 0.07 | 0.21 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 15 | 0.23 | 0.07 | 0.21 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 15 | 0.2 | 0.04 | 0.21 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB2 | 15 | 0.2 | 0.04 | 0.21 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB3 | 15 | 0.2 | 0.04 | 0.21 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD23 | 14 | 2.48 | 1.46 | 2.74 |
| (1,127) | 1:19:A:PRO:HD3 | 1:21:A:LEU:HD23 | 14 | 2.48 | 1.46 | 2.74 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 14 | 2.48 | 1.46 | 2.74 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD21 | 14 | 2.48 | 1.46 | 2.74 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 14 | 2.17 | 1.06 | 2.42 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG11 | 14 | 2.17 | 1.06 | 2.42 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG13 | 14 | 2.17 | 1.06 | 2.42 |
| (1,246) | 1:39:A:ARG:HG2 | 1:95:A:VAL:HG12 | 14 | 2.17 | 1.06 | 2.42 |
| (1,1734) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HD2 | 14 | 0.64 | 0.25 | 0.7 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD2 | 14 | 0.64 | 0.25 | 0.7 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 14 | 0.64 | 0.25 | 0.7 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD1 | 14 | 0.64 | 0.25 | 0.7 |
| (1,1734) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HD1 | 14 | 0.64 | 0.25 | 0.7 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG22 | 14 | 0.56 | 0.24 | 0.55 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 14 | 0.56 | 0.24 | 0.55 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG23 | 14 | 0.56 | 0.24 | 0.55 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG22 | 14 | 0.51 | 0.19 | 0.49 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 14 | 0.51 | 0.19 | 0.49 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG23 | 14 | 0.51 | 0.19 | 0.49 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 14 | 0.46 | 0.19 | 0.48 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG21 | 14 | 0.46 | 0.19 | 0.48 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG22 | 14 | 0.46 | 0.19 | 0.48 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 14 | 0.45 | 0.26 | 0.4 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 14 | 0.34 | 0.22 | 0.27 |
| (1,98) | 1:80:A:ARG:HG3 | 1:76:A:VAL:HG12 | 14 | 0.34 | 0.22 | 0.27 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG13 | 14 | 0.34 | 0.22 | 0.27 |
| (1,98) | 1:80:A:ARG:HG3 | 1:76:A:VAL:HG11 | 14 | 0.34 | 0.22 | 0.27 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG12 | 14 | 0.34 | 0.22 | 0.27 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 14 | 0.33 | 0.12 | 0.36 |
| (1,479) | 1:89:A:VAL:HG21 | 1:88:A:GLN:H | 14 | 0.33 | 0.12 | 0.36 |
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 14 | 0.33 | 0.12 | 0.36 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 14 | 0.3 | 0.17 | 0.28 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD1 | 14 | 0.3 | 0.17 | 0.28 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG23 | 14 | 0.29 | 0.11 | 0.32 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 14 | 0.29 | 0.11 | 0.32 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG21 | 14 | 0.29 | 0.11 | 0.32 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 14 | 0.21 | 0.07 | 0.21 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG21 | 14 | 0.21 | 0.07 | 0.21 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG23 | 14 | 0.21 | 0.07 | 0.21 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 14 | 0.18 | 0.07 | 0.16 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1338) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG13 | 13 | 2.41 | 1.22 | 2.83 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 13 | 2.41 | 1.22 | 2.83 |
| (1,1338) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG13 | 13 | 2.41 | 1.22 | 2.83 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG13 | 13 | 1.35 | 0.93 | 1.1 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 13 | 1.35 | 0.93 | 1.1 |
| (1,521) | 1:95:A:VAL:HG11 | 1:98:A:LEU:HB2 | 13 | 1.35 | 0.93 | 1.1 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG11 | 13 | 1.35 | 0.93 | 1.1 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 13 | 0.86 | 0.36 | 0.75 |
| (1,1929) | 1:58:A:LEU:HD12 | 1:45:A:PHE:HB2 | 13 | 0.86 | 0.36 | 0.75 |
| (1,1929) | 1:58:A:LEU:HD11 | 1:45:A:PHE:HB2 | 13 | 0.86 | 0.36 | 0.75 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 13 | 0.77 | 0.46 | 0.82 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 13 | 0.77 | 0.46 | 0.82 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD11 | 13 | 0.54 | 0.25 | 0.53 |
| (1,458) | 1:81:A:LEU:HD23 | 1:94:A:PHE:H | 13 | 0.54 | 0.25 | 0.53 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD13 | 13 | 0.54 | 0.25 | 0.53 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD12 | 13 | 0.54 | 0.25 | 0.53 |
| (1,458) | 1:81:A:LEU:HD21 | 1:94:A:PHE:H | 13 | 0.54 | 0.25 | 0.53 |
| (1,458) | 1:81:A:LEU:HD22 | 1:94:A:PHE:H | 13 | 0.54 | 0.25 | 0.53 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 13 | 0.49 | 0.19 | 0.54 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 13 | 0.49 | 0.19 | 0.54 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG23 | 13 | 0.49 | 0.19 | 0.54 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 13 | 0.47 | 0.26 | 0.33 |
| (1,121) | 1:20:A:ASN:HB3 | 1:19:A:PRO:HB3 | 13 | 0.47 | 0.26 | 0.33 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 13 | 0.46 | 0.16 | 0.55 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 13 | 0.42 | 0.2 | 0.39 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG21 | 13 | 0.42 | 0.2 | 0.39 |
| (1,434) | 1:79:A:GLN:HG3 | 1:78:A:ILE:HG21 | 13 | 0.42 | 0.2 | 0.39 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG23 | 13 | 0.42 | 0.2 | 0.39 |
| (1,1481) | 1:38:A:ILE:HD11 | 1:35:A:LEU:H | 13 | 0.35 | 0.15 | 0.37 |
| (1,1481) | 1:38:A:ILE:HD12 | 1:35:A:LEU:H | 13 | 0.35 | 0.15 | 0.37 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 13 | 0.35 | 0.15 | 0.37 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD13 | 13 | 0.34 | 0.13 | 0.28 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 0.34 | 0.13 | 0.28 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD12 | 13 | 0.34 | 0.13 | 0.28 |
| (1,307) | 1:54:A:SER:HB2 | 1:78:A:ILE:HD12 | 13 | 0.34 | 0.13 | 0.28 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG11 | 13 | 0.32 | 0.24 | 0.23 |
| (1,423) | 1:79:A:GLN:HG3 | 1:76:A:VAL:HG12 | 13 | 0.32 | 0.24 | 0.23 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG13 | 13 | 0.32 | 0.24 | 0.23 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG12 | 13 | 0.32 | 0.24 | 0.23 |
| (1,423) | 1:79:A:GLN:HG3 | 1:76:A:VAL:HG13 | 13 | 0.32 | 0.24 | 0.23 |
| (1,371) | 1:65:A:LEU:HD12 | 1:67:A:TYR:H | 13 | 0.24 | 0.09 | 0.22 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 13 | 0.24 | 0.09 | 0.22 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,371) | 1:65:A:LEU:HD11 | 1:67:A:TYR:H | 13 | 0.24 | 0.09 | 0.22 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 13 | 0.2 | 0.05 | 0.21 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 13 | 0.18 | 0.05 | 0.18 |
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 12 | 2.79 | 1.18 | 3.15 |
| (1,1342) | 1:95:A:VAL:HG11 | 1:39:A:ARG:H | 12 | 2.79 | 1.18 | 3.15 |
| (1,1342) | 1:95:A:VAL:HG13 | 1:39:A:ARG:H | 12 | 2.79 | 1.18 | 3.15 |
| (1,1943) | 1:58:A:LEU:HD21 | 1:78:A:ILE:H | 12 | 2.5 | 0.72 | 2.7 |
| (1,1943) | 1:58:A:LEU:HD22 | 1:78:A:ILE:H | 12 | 2.5 | 0.72 | 2.7 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 12 | 2.5 | 0.72 | 2.7 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 12 | 2.5 | 0.76 | 2.64 |
| (1,1926) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB3 | 12 | 2.5 | 0.76 | 2.64 |
| (1,1926) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB3 | 12 | 2.5 | 0.76 | 2.64 |
| (1,1941) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 12 | 1.81 | 0.79 | 1.93 |
| (1,1941) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 12 | 1.81 | 0.79 | 1.93 |
| (1,1941) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 12 | 1.81 | 0.79 | 1.93 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB2 | 12 | 1.76 | 0.52 | 1.62 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 12 | 1.76 | 0.52 | 1.62 |
| (1,383) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HB2 | 12 | 1.76 | 0.52 | 1.62 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB3 | 12 | 1.76 | 0.52 | 1.62 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB3 | 12 | 1.76 | 0.52 | 1.62 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 12 | 1.37 | 0.64 | 1.01 |
| (1,1946) | 1:72:A:VAL:HG12 | 1:73:A:GLU:HG3 | 12 | 1.37 | 0.64 | 1.01 |
| (1,1946) | 1:72:A:VAL:HG13 | 1:73:A:GLU:HG3 | 12 | 1.37 | 0.64 | 1.01 |
| (1,1341) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG13 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG12 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG13 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG11 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG12 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG11 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG12 | 12 | 1.11 | 0.65 | 1.0 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG13 | 12 | 1.11 | 0.65 | 1.0 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 12 | 0.94 | 0.18 | 0.92 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD22 | 12 | 0.94 | 0.18 | 0.92 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD21 | 12 | 0.94 | 0.18 | 0.92 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD21 | 12 | 0.73 | 0.24 | 0.78 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD23 | 12 | 0.73 | 0.24 | 0.78 |
| (1,211) | 1:35:A:LEU:HD12 | 1:39:A:ARG:H | 12 | 0.73 | 0.24 | 0.78 |
| (1,211) | 1:35:A:LEU:HD13 | 1:39:A:ARG:H | 12 | 0.73 | 0.24 | 0.78 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD22 | 12 | 0.73 | 0.24 | 0.78 |
| (1,401) | 1:72:A:VAL:HG11 | 1:75:A:GLU:HB3 | 12 | 0.69 | 0.28 | 0.63 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 12 | 0.69 | 0.28 | 0.63 |
| (1,401) | 1:72:A:VAL:HG21 | 1:75:A:GLU:HB2 | 12 | 0.69 | 0.28 | 0.63 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,401) | 1:72:A:VAL:HG22 | 1:75:A:GLU:HB2 | 12 | 0.69 | 0.28 | 0.63 |
| (1,401) | 1:72:A:VAL:HG23 | 1:75:A:GLU:HB2 | 12 | 0.69 | 0.28 | 0.63 |
| (1,401) | 1:72:A:VAL:HG12 | 1:75:A:GLU:HB3 | 12 | 0.69 | 0.28 | 0.63 |
| (1,390) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,390) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,390) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,390) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,390) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,390) | 1:72:A:VAL:HG21 | 1:70:A:ASN:HD22 | 12 | 0.63 | 0.14 | 0.62 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 12 | 0.49 | 0.24 | 0.48 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB3 | 12 | 0.49 | 0.24 | 0.48 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB3 | 12 | 0.49 | 0.24 | 0.48 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB2 | 12 | 0.49 | 0.24 | 0.48 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB1 | 12 | 0.49 | 0.24 | 0.48 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG22 | 12 | 0.34 | 0.17 | 0.26 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 12 | 0.34 | 0.17 | 0.26 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 12 | 0.34 | 0.17 | 0.26 |
| (1,1377) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HB2 | 11 | 2.18 | 0.65 | 2.37 |
| (1,1377) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HB2 | 11 | 2.18 | 0.65 | 2.37 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 11 | 2.18 | 0.65 | 2.37 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 11 | 1.93 | 0.18 | 1.95 |
| (1,1945) | 1:58:A:LEU:HD11 | 1:89:A:VAL:HB | 11 | 1.93 | 0.18 | 1.95 |
| (1,1945) | 1:58:A:LEU:HD13 | 1:89:A:VAL:HB | 11 | 1.93 | 0.18 | 1.95 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD11 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD13 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD12 | 1:53:A:ILE:HD12 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD12 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD12 | 1:53:A:ILE:HD11 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD13 | 11 | 1.45 | 0.23 | 1.39 |
| (1,1944) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 11 | 1.44 | 0.3 | 1.45 |
| (1,1944) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 11 | 1.44 | 0.3 | 1.45 |
| (1,1944) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 11 | 1.44 | 0.3 | 1.45 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 11 | 1.26 | 0.41 | 1.45 |
| (1,1927) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HD2 | 11 | 1.24 | 0.44 | 1.28 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 11 | 1.24 | 0.44 | 1.28 |
| (1,1927) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HD2 | 11 | 1.24 | 0.44 | 1.28 |
| (1,1382) | 1:95:A:VAL:HG21 | 1:92:A:GLU:H | 11 | 1.12 | 0.27 | 1.2 |
| (1,1382) | 1:95:A:VAL:HG22 | 1:92:A:GLU:H | 11 | 1.12 | 0.27 | 1.2 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 11 | 1.12 | 0.27 | 1.2 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD23 | 11 | 0.92 | 0.25 | 1.0 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD13 | 11 | 0.92 | 0.25 | 1.0 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 11 | 0.92 | 0.25 | 1.0 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 11 | 0.77 | 0.12 | 0.78 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD12 | 11 | 0.77 | 0.12 | 0.78 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD11 | 11 | 0.77 | 0.12 | 0.78 |
| (1,176) | 1:28:A:VAL:HG21 | 1:30:A:ILE:H | 11 | 0.67 | 0.3 | 0.58 |
| (1,176) | 1:28:A:VAL:HG23 | 1:30:A:ILE:H | 11 | 0.67 | 0.3 | 0.58 |
| (1,176) | 1:28:A:VAL:HG22 | 1:30:A:ILE:H | 11 | 0.67 | 0.3 | 0.58 |
| (1,176) | 1:28:A:VAL:HG12 | 1:30:A:ILE:H | 11 | 0.67 | 0.3 | 0.58 |
| (1,176) | 1:28:A:VAL:HG11 | 1:30:A:ILE:H | 11 | 0.67 | 0.3 | 0.58 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 11 | 0.62 | 0.5 | 0.46 |
| (1,508) | 1:98:A:LEU:HD22 | 1:91:A:PHE:HE1 | 11 | 0.62 | 0.5 | 0.46 |
| (1,508) | 1:98:A:LEU:HD21 | 1:91:A:PHE:HE1 | 11 | 0.62 | 0.5 | 0.46 |
| (1,508) | 1:98:A:LEU:HD12 | 1:91:A:PHE:HE1 | 11 | 0.62 | 0.5 | 0.46 |
| (1,389) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,389) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,389) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,389) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,389) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,389) | 1:72:A:VAL:HG21 | 1:70:A:ASN:HD21 | 11 | 0.47 | 0.51 | 0.25 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 11 | 0.45 | 0.23 | 0.44 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 11 | 0.45 | 0.23 | 0.44 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 11 | 0.43 | 0.14 | 0.36 |
| (1,74) | 1:75:A:GLU:HB3 | 1:55:A:LYS:HE2 | 11 | 0.43 | 0.14 | 0.36 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 11 | 0.42 | 0.16 | 0.42 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD11 | 11 | 0.42 | 0.16 | 0.42 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD12 | 11 | 0.42 | 0.16 | 0.42 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 11 | 0.4 | 0.13 | 0.41 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 11 | 0.4 | 0.13 | 0.41 |
| (1,139) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 11 | 0.38 | 0.26 | 0.32 |
| (1,139) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 11 | 0.38 | 0.26 | 0.32 |
| (1,139) | 1:21:A:LEU:HD23 | 1:21:A:LEU:HA | 11 | 0.38 | 0.26 | 0.32 |
| (1,139) | 1:21:A:LEU:HD11 | 1:21:A:LEU:HA | 11 | 0.38 | 0.26 | 0.32 |
| (1,139) | 1:21:A:LEU:HD22 | 1:21:A:LEU:HA | 11 | 0.38 | 0.26 | 0.32 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 11 | 0.37 | 0.27 | 0.19 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 11 | 0.37 | 0.27 | 0.19 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 11 | 0.28 | 0.11 | 0.28 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 11 | 0.28 | 0.11 | 0.28 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD13 | 11 | 0.28 | 0.11 | 0.28 |
| (1,327) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |
| (1,327) | 1:74:A:LEU:HD22 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |
| (1,327) | 1:74:A:LEU:HD11 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |
| (1,327) | 1:74:A:LEU:HD21 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |
| (1,327) | 1:74:A:LEU:HD12 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,327) | 1:74:A:LEU:HD13 | 1:56:A:GLN:H | 11 | 0.28 | 0.14 | 0.25 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 11 | 0.23 | 0.05 | 0.22 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG13 | 11 | 0.22 | 0.05 | 0.24 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG11 | 11 | 0.22 | 0.05 | 0.24 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG12 | 11 | 0.22 | 0.05 | 0.24 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 11 | 0.22 | 0.06 | 0.21 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 11 | 0.2 | 0.05 | 0.19 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG22 | 11 | 0.2 | 0.05 | 0.19 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG23 | 11 | 0.2 | 0.05 | 0.19 |
| (1,573) | 1:30:A:ILE:HG21 | 1:30:A:ILE:H | 11 | 0.15 | 0.02 | 0.15 |
| (1,573) | 1:30:A:ILE:HG22 | 1:30:A:ILE:H | 11 | 0.15 | 0.02 | 0.15 |
| (1,573) | 1:30:A:ILE:HG23 | 1:30:A:ILE:H | 11 | 0.15 | 0.02 | 0.15 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG23 | 10 | 2.94 | 0.07 | 2.94 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG21 | 10 | 2.94 | 0.07 | 2.94 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 10 | 2.94 | 0.07 | 2.94 |
| (1,1340) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG23 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG21 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG23 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG21 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG22 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG22 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG23 | 10 | 2.41 | 0.32 | 2.46 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG13 | 10 | 2.28 | 0.36 | 2.27 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG12 | 10 | 2.28 | 0.36 | 2.27 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG11 | 10 | 2.28 | 0.36 | 2.27 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG12 | 10 | 2.28 | 0.4 | 2.3 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG11 | 10 | 2.28 | 0.4 | 2.3 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG13 | 10 | 2.28 | 0.4 | 2.3 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD12 | 10 | 2.21 | 0.89 | 2.55 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD13 | 10 | 2.21 | 0.89 | 2.55 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 10 | 2.21 | 0.89 | 2.55 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD21 | 10 | 2.08 | 0.66 | 2.26 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD23 | 10 | 2.08 | 0.66 | 2.26 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD21 | 10 | 2.08 | 0.66 | 2.26 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD22 | 10 | 2.08 | 0.66 | 2.26 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD22 | 10 | 2.08 | 0.66 | 2.26 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD23 | 10 | 2.08 | 0.66 | 2.26 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG23 | 10 | 1.93 | 0.06 | 1.93 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG21 | 10 | 1.93 | 0.06 | 1.93 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 10 | 1.93 | 0.06 | 1.93 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG21 | 10 | 1.85 | 0.09 | 1.84 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG22 | 10 | 1.85 | 0.09 | 1.84 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 10 | 1.85 | 0.09 | 1.84 |
| (1,1472) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HD13 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HD11 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD13 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD12 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD12 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD11 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD13 | 10 | 1.79 | 0.36 | 1.83 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD12 | 10 | 1.43 | 0.15 | 1.46 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD13 | 10 | 1.43 | 0.15 | 1.46 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD11 | 10 | 1.43 | 0.15 | 1.46 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG12 | 10 | 0.93 | 0.12 | 0.97 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 10 | 0.93 | 0.12 | 0.97 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG13 | 10 | 0.93 | 0.12 | 0.97 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD23 | 10 | 0.82 | 0.52 | 0.66 |
| (1,137) | 1:22:A:LEU:HD22 | 1:20:A:ASN:HD22 | 10 | 0.82 | 0.52 | 0.66 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD21 | 10 | 0.82 | 0.52 | 0.66 |
| (1,137) | 1:22:A:LEU:HD21 | 1:20:A:ASN:HD22 | 10 | 0.82 | 0.52 | 0.66 |
| (1,137) | 1:22:A:LEU:HD13 | 1:20:A:ASN:HD22 | 10 | 0.82 | 0.52 | 0.66 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD22 | 10 | 0.82 | 0.52 | 0.66 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD22 | 10 | 0.82 | 0.11 | 0.78 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 10 | 0.82 | 0.11 | 0.78 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD23 | 10 | 0.82 | 0.11 | 0.78 |
| (1,1942) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG2 | 10 | 0.79 | 0.4 | 0.89 |
| (1,1942) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG2 | 10 | 0.79 | 0.4 | 0.89 |
| (1,1942) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG2 | 10 | 0.79 | 0.4 | 0.89 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG23 | 10 | 0.72 | 0.3 | 0.78 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG23 | 10 | 0.72 | 0.3 | 0.78 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG22 | 10 | 0.72 | 0.3 | 0.78 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG21 | 10 | 0.72 | 0.3 | 0.78 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG22 | 10 | 0.69 | 0.09 | 0.66 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG23 | 10 | 0.69 | 0.09 | 0.66 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 10 | 0.69 | 0.09 | 0.66 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 10 | 0.68 | 0.24 | 0.7 |
| (1,84) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HG2 | 10 | 0.68 | 0.24 | 0.7 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 10 | 0.56 | 0.19 | 0.56 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 10 | 0.54 | 0.24 | 0.56 |
| (1,157) | 1:26:A:ARG:HB3 | 1:25:A:GLN:HG2 | 10 | 0.54 | 0.24 | 0.56 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG2 | 10 | 0.54 | 0.24 | 0.56 |
| (1,472) | 1:89:A:VAL:HG21 | 1:85:A:GLY:H | 10 | 0.52 | 0.22 | 0.56 |
| (1,472) | 1:89:A:VAL:HG22 | 1:85:A:GLY:H | 10 | 0.52 | 0.22 | 0.56 |
| (1,472) | 1:89:A:VAL:HG23 | 1:85:A:GLY:H | 10 | 0.52 | 0.22 | 0.56 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 10 | 0.41 | 0.19 | 0.41 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG21 | 10 | 0.41 | 0.19 | 0.41 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG22 | 10 | 0.41 | 0.19 | 0.41 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 10 | 0.4 | 0.19 | 0.38 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 10 | 0.4 | 0.19 | 0.38 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 10 | 0.4 | 0.19 | 0.38 |
| (1,518) | 1:97:A:LEU:HD11 | 1:94:A:PHE:HE1 | 10 | 0.34 | 0.24 | 0.26 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 10 | 0.34 | 0.24 | 0.26 |
| (1,518) | 1:97:A:LEU:HD12 | 1:94:A:PHE:HE1 | 10 | 0.34 | 0.24 | 0.26 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 10 | 0.34 | 0.17 | 0.3 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG23 | 10 | 0.32 | 0.05 | 0.31 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG21 | 10 | 0.32 | 0.05 | 0.31 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 10 | 0.32 | 0.05 | 0.31 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD21 | 10 | 0.3 | 0.06 | 0.29 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD23 | 10 | 0.3 | 0.06 | 0.29 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD22 | 10 | 0.3 | 0.06 | 0.29 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG21 | 10 | 0.3 | 0.06 | 0.28 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG22 | 10 | 0.3 | 0.06 | 0.28 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 10 | 0.3 | 0.06 | 0.28 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 10 | 0.29 | 0.03 | 0.29 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 10 | 0.27 | 0.11 | 0.24 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 10 | 0.23 | 0.07 | 0.24 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG22 | 10 | 0.23 | 0.07 | 0.24 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG23 | 10 | 0.23 | 0.07 | 0.24 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 10 | 0.16 | 0.03 | 0.16 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 9 | 1.45 | 0.12 | 1.49 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 9 | 1.17 | 0.41 | 1.34 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD12 | 9 | 1.17 | 0.41 | 1.34 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD11 | 9 | 1.17 | 0.41 | 1.34 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 9 | 0.83 | 0.14 | 0.88 |
| (1,1180) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 9 | 0.8 | 0.36 | 0.91 |
| (1,1180) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 9 | 0.8 | 0.36 | 0.91 |
| (1,1180) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 9 | 0.8 | 0.36 | 0.91 |
| (1,323) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HE2 | 9 | 0.63 | 0.34 | 0.43 |
| (1,323) | 1:74:A:LEU:HD13 | 1:55:A:LYS:HE2 | 9 | 0.63 | 0.34 | 0.43 |
| (1,323) | 1:74:A:LEU:HD12 | 1:55:A:LYS:HE2 | 9 | 0.63 | 0.34 | 0.43 |
| (1,323) | 1:55:A:LYS:HE3 | 1:74:A:LEU:HD11 | 9 | 0.63 | 0.34 | 0.43 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD12 | 9 | 0.6 | 0.13 | 0.64 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD11 | 9 | 0.6 | 0.13 | 0.64 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD13 | 9 | 0.6 | 0.13 | 0.64 |
| (1,1179) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 9 | 0.58 | 0.19 | 0.7 |
| (1,1179) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 9 | 0.58 | 0.19 | 0.7 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1179) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 9 | 0.58 | 0.19 | 0.7 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG21 | 9 | 0.44 | 0.26 | 0.33 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG22 | 9 | 0.44 | 0.26 | 0.33 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG23 | 9 | 0.44 | 0.26 | 0.33 |
| (1,183) | 1:33:A:ASP:HB3 | 1:30:A:ILE:HG21 | 9 | 0.44 | 0.26 | 0.33 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 9 | 0.42 | 0.1 | 0.41 |
| (1,44) | 1:72:A:VAL:HG23 | 1:71:A:GLU:HG3 | 9 | 0.42 | 0.1 | 0.41 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG2 | 9 | 0.42 | 0.1 | 0.41 |
| (1,44) | 1:72:A:VAL:HG21 | 1:71:A:GLU:HG3 | 9 | 0.42 | 0.1 | 0.41 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 9 | 0.42 | 0.23 | 0.4 |
| (1,1704) | 1:74:A:LEU:HD21 | 1:55:A:LYS:H | 9 | 0.42 | 0.23 | 0.4 |
| (1,1704) | 1:74:A:LEU:HD22 | 1:55:A:LYS:H | 9 | 0.42 | 0.23 | 0.4 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 9 | 0.37 | 0.17 | 0.39 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG12 | 9 | 0.37 | 0.17 | 0.39 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG13 | 9 | 0.37 | 0.17 | 0.39 |
| (1,1068) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 9 | 0.36 | 0.1 | 0.38 |
| (1,1068) | 1:21:A:LEU:HD12 | 1:21:A:LEU:HA | 9 | 0.36 | 0.1 | 0.38 |
| (1,1068) | 1:21:A:LEU:HD11 | 1:21:A:LEU:HA | 9 | 0.36 | 0.1 | 0.38 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE2 | 9 | 0.36 | 0.19 | 0.29 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE1 | 9 | 0.36 | 0.19 | 0.29 |
| (1,214) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HE1 | 9 | 0.36 | 0.19 | 0.29 |
| (1,214) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HE2 | 9 | 0.36 | 0.19 | 0.29 |
| (1,214) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HE2 | 9 | 0.36 | 0.19 | 0.29 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE1 | 9 | 0.34 | 0.17 | 0.29 |
| (1,1492) | 1:15:A:ILE:HD12 | 1:16:A:TYR:HE2 | 9 | 0.34 | 0.17 | 0.29 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE2 | 9 | 0.34 | 0.17 | 0.29 |
| (1,1492) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HE1 | 9 | 0.34 | 0.17 | 0.29 |
| (1,1600) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 9 | 0.34 | 0.22 | 0.34 |
| (1,1600) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 9 | 0.34 | 0.22 | 0.34 |
| (1,1600) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 9 | 0.34 | 0.22 | 0.34 |
| (1,352) | 1:74:A:LEU:HD21 | 1:59:A:GLY:HA2 | 9 | 0.34 | 0.13 | 0.37 |
| (1,352) | 1:74:A:LEU:HD23 | 1:59:A:GLY:HA2 | 9 | 0.34 | 0.13 | 0.37 |
| (1,352) | 1:74:A:LEU:HD22 | 1:59:A:GLY:HA2 | 9 | 0.34 | 0.13 | 0.37 |
| (1,352) | 1:74:A:LEU:HD13 | 1:59:A:GLY:HA2 | 9 | 0.34 | 0.13 | 0.37 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 9 | 0.32 | 0.18 | 0.27 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 9 | 0.28 | 0.04 | 0.29 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE2 | 9 | 0.28 | 0.04 | 0.29 |
| (1,256) | 1:53:A:ILE:HD13 | 1:43:A:LYS:HG3 | 9 | 0.27 | 0.11 | 0.24 |
| (1,256) | 1:53:A:ILE:HD12 | 1:43:A:LYS:HG3 | 9 | 0.27 | 0.11 | 0.24 |
| (1,256) | 1:53:A:ILE:HD11 | 1:43:A:LYS:HG3 | 9 | 0.27 | 0.11 | 0.24 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 9 | 0.25 | 0.14 | 0.18 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG21 | 9 | 0.25 | 0.14 | 0.18 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD12 | 9 | 0.25 | 0.13 | 0.17 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD23 | 9 | 0.25 | 0.13 | 0.17 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD21 | 9 | 0.25 | 0.13 | 0.17 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD22 | 9 | 0.25 | 0.13 | 0.17 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD11 | 9 | 0.25 | 0.13 | 0.17 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG23 | 9 | 0.24 | 0.05 | 0.23 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 9 | 0.24 | 0.05 | 0.23 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 9 | 0.23 | 0.06 | 0.22 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD11 | 9 | 0.23 | 0.06 | 0.22 |
| (1,345) | 1:58:A:LEU:HD12 | 1:58:A:LEU:H | 9 | 0.22 | 0.1 | 0.18 |
| (1,345) | 1:58:A:LEU:HD11 | 1:58:A:LEU:H | 9 | 0.22 | 0.1 | 0.18 |
| (1,345) | 1:58:A:LEU:HD13 | 1:58:A:LEU:H | 9 | 0.22 | 0.1 | 0.18 |
| (1,345) | 1:58:A:LEU:HD23 | 1:58:A:LEU:H | 9 | 0.22 | 0.1 | 0.18 |
| (1,345) | 1:58:A:LEU:HD21 | 1:58:A:LEU:H | 9 | 0.22 | 0.1 | 0.18 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 9 | 0.21 | 0.13 | 0.14 |
| (1,1619) | 1:98:A:LEU:HD13 | 1:95:A:VAL:HA | 9 | 0.21 | 0.13 | 0.14 |
| (1,1619) | 1:98:A:LEU:HD11 | 1:95:A:VAL:HA | 9 | 0.21 | 0.13 | 0.14 |
| (1,402) | 1:74:A:LEU:HD12 | 1:73:A:GLU:H | 9 | 0.2 | 0.1 | 0.16 |
| (1,402) | 1:74:A:LEU:HD11 | 1:73:A:GLU:H | 9 | 0.2 | 0.1 | 0.16 |
| (1,402) | 1:74:A:LEU:HD13 | 1:73:A:GLU:H | 9 | 0.2 | 0.1 | 0.16 |
| (1,402) | 1:74:A:LEU:HD23 | 1:73:A:GLU:H | 9 | 0.2 | 0.1 | 0.16 |
| (1,1403) | 1:77:A:ILE:HG22 | 1:78:A:ILE:HG12 | 9 | 0.18 | 0.06 | 0.18 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 9 | 0.18 | 0.06 | 0.18 |
| (1,1403) | 1:77:A:ILE:HG23 | 1:78:A:ILE:HG12 | 9 | 0.18 | 0.06 | 0.18 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 9 | 0.11 | 0.01 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG21 | 9 | 0.11 | 0.01 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG23 | 9 | 0.11 | 0.01 | 0.11 |
| (1,1914) | 1:21:A:LEU:HD22 | 1:18:A:VAL:HB | 8 | 1.04 | 0.67 | 0.74 |
| (1,1914) | 1:21:A:LEU:HD23 | 1:18:A:VAL:HB | 8 | 1.04 | 0.67 | 0.74 |
| (1,1914) | 1:21:A:LEU:HD21 | 1:18:A:VAL:HB | 8 | 1.04 | 0.67 | 0.74 |
| (1,376) | 1:72:A:VAL:HG23 | 1:70:A:ASN:H | 8 | 0.68 | 0.26 | 0.8 |
| (1,376) | 1:72:A:VAL:HG21 | 1:70:A:ASN:H | 8 | 0.68 | 0.26 | 0.8 |
| (1,376) | 1:72:A:VAL:HG22 | 1:70:A:ASN:H | 8 | 0.68 | 0.26 | 0.8 |
| (1,350) | 1:58:A:LEU:HD11 | 1:78:A:ILE:HG13 | 8 | 0.59 | 0.2 | 0.57 |
| (1,350) | 1:58:A:LEU:HD13 | 1:78:A:ILE:HG13 | 8 | 0.59 | 0.2 | 0.57 |
| (1,350) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HG13 | 8 | 0.59 | 0.2 | 0.57 |
| (1,350) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HG13 | 8 | 0.59 | 0.2 | 0.57 |
| (1,1152) | 1:58:A:LEU:HD13 | 1:62:A:MET:HG3 | 8 | 0.48 | 0.19 | 0.4 |
| (1,1152) | 1:58:A:LEU:HD12 | 1:62:A:MET:HG3 | 8 | 0.48 | 0.19 | 0.4 |
| (1,1152) | 1:58:A:LEU:HD11 | 1:62:A:MET:HG3 | 8 | 0.48 | 0.19 | 0.4 |
| (1,1733) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HE2 | 8 | 0.44 | 0.11 | 0.43 |
| (1,1733) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HE2 | 8 | 0.44 | 0.11 | 0.43 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1733) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HE1 | 8 | 0.44 | 0.11 | 0.43 |
| (1,1733) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HE1 | 8 | 0.44 | 0.11 | 0.43 |
| (1,1733) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HE2 | 8 | 0.44 | 0.11 | 0.43 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 8 | 0.42 | 0.19 | 0.34 |
| (1,332) | 1:74:A:LEU:HD21 | 1:56:A:GLN:HB3 | 8 | 0.42 | 0.19 | 0.34 |
| (1,332) | 1:74:A:LEU:HD23 | 1:56:A:GLN:HB3 | 8 | 0.42 | 0.19 | 0.34 |
| (1,199) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 8 | 0.41 | 0.09 | 0.39 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 8 | 0.41 | 0.09 | 0.39 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG11 | 8 | 0.39 | 0.17 | 0.36 |
| (1,299) | 1:53:A:ILE:HD12 | 1:89:A:VAL:HG11 | 8 | 0.39 | 0.17 | 0.36 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG12 | 8 | 0.39 | 0.17 | 0.36 |
| (1,299) | 1:53:A:ILE:HD12 | 1:89:A:VAL:HG13 | 8 | 0.39 | 0.17 | 0.36 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG13 | 8 | 0.39 | 0.17 | 0.36 |
| (1,1175) | 1:30:A:ILE:HD12 | 1:29:A:ASP:H | 8 | 0.35 | 0.18 | 0.31 |
| (1,1175) | 1:30:A:ILE:HD13 | 1:29:A:ASP:H | 8 | 0.35 | 0.18 | 0.31 |
| (1,1175) | 1:30:A:ILE:HD11 | 1:29:A:ASP:H | 8 | 0.35 | 0.18 | 0.31 |
| (1,26) | 1:72:A:VAL:HG13 | 1:71:A:GLU:HG2 | 8 | 0.33 | 0.09 | 0.34 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG13 | 8 | 0.33 | 0.09 | 0.34 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG11 | 8 | 0.33 | 0.09 | 0.34 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG12 | 8 | 0.33 | 0.09 | 0.34 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD11 | 8 | 0.33 | 0.19 | 0.34 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD12 | 8 | 0.33 | 0.19 | 0.34 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD13 | 8 | 0.33 | 0.19 | 0.34 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 8 | 0.29 | 0.11 | 0.29 |
| (1,491) | 1:89:A:VAL:HG12 | 1:93:A:GLU:H | 8 | 0.28 | 0.1 | 0.33 |
| (1,491) | 1:89:A:VAL:HG11 | 1:93:A:GLU:H | 8 | 0.28 | 0.1 | 0.33 |
| (1,491) | 1:89:A:VAL:HG13 | 1:93:A:GLU:H | 8 | 0.28 | 0.1 | 0.33 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG13 | 8 | 0.26 | 0.1 | 0.28 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG12 | 8 | 0.26 | 0.1 | 0.28 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG11 | 8 | 0.26 | 0.1 | 0.28 |
| (1,468) | 1:84:A:ASP:HB3 | 1:83:A:MET:HB2 | 8 | 0.22 | 0.09 | 0.22 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 8 | 0.22 | 0.09 | 0.22 |
| (1,1094) | 1:53:A:ILE:HG21 | 1:45:A:PHE:HD2 | 8 | 0.21 | 0.08 | 0.18 |
| (1,1094) | 1:53:A:ILE:HG23 | 1:45:A:PHE:HD2 | 8 | 0.21 | 0.08 | 0.18 |
| (1,1094) | 1:53:A:ILE:HG22 | 1:45:A:PHE:HD2 | 8 | 0.21 | 0.08 | 0.18 |
| (1,515) | 1:98:A:LEU:HD13 | 1:94:A:PHE:HA | 8 | 0.2 | 0.05 | 0.22 |
| (1,515) | 1:98:A:LEU:HD12 | 1:94:A:PHE:HA | 8 | 0.2 | 0.05 | 0.22 |
| (1,1381) | 1:95:A:VAL:HG22 | 1:95:A:VAL:H | 8 | 0.17 | 0.04 | 0.16 |
| (1,1381) | 1:95:A:VAL:HG23 | 1:95:A:VAL:H | 8 | 0.17 | 0.04 | 0.16 |
| (1,1381) | 1:95:A:VAL:HG21 | 1:95:A:VAL:H | 8 | 0.17 | 0.04 | 0.16 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 8 | 0.16 | 0.07 | 0.13 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 8 | 0.12 | 0.02 | 0.12 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG3 | 8 | 0.12 | 0.02 | 0.12 |
| (1,204) | 1:35:A:LEU:HD12 | 1:34:A:GLU:HG2 | 7 | 0.92 | 0.23 | 0.91 |
| (1,204) | 1:35:A:LEU:HD13 | 1:34:A:GLU:HG2 | 7 | 0.92 | 0.23 | 0.91 |
| (1,204) | 1:35:A:LEU:HD22 | 1:34:A:GLU:HG2 | 7 | 0.92 | 0.23 | 0.91 |
| (1,204) | 1:34:A:GLU:HG3 | 1:35:A:LEU:HD13 | 7 | 0.92 | 0.23 | 0.91 |
| (1,204) | 1:35:A:LEU:HD23 | 1:34:A:GLU:HG2 | 7 | 0.92 | 0.23 | 0.91 |
| (1,204) | 1:35:A:LEU:HD11 | 1:34:A:GLU:HG2 | 7 | 0.92 | 0.23 | 0.91 |
| (1,217) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG21 | 7 | 0.76 | 0.2 | 0.76 |
| (1,217) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HG21 | 7 | 0.76 | 0.2 | 0.76 |
| (1,217) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG22 | 7 | 0.76 | 0.2 | 0.76 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG21 | 7 | 0.76 | 0.2 | 0.76 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG23 | 7 | 0.76 | 0.2 | 0.76 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG22 | 7 | 0.76 | 0.2 | 0.76 |
| (1,1772) | 1:95:A:VAL:HG11 | 1:92:A:GLU:HG3 | 7 | 0.73 | 0.46 | 0.81 |
| (1,1772) | 1:95:A:VAL:HG13 | 1:92:A:GLU:HG3 | 7 | 0.73 | 0.46 | 0.81 |
| (1,470) | 1:97:A:LEU:HD12 | 1:83:A:MET:HG2 | 7 | 0.65 | 0.28 | 0.8 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD21 | 7 | 0.65 | 0.28 | 0.8 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD23 | 7 | 0.65 | 0.28 | 0.8 |
| (1,470) | 1:97:A:LEU:HD11 | 1:83:A:MET:HG2 | 7 | 0.65 | 0.28 | 0.8 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 7 | 0.56 | 0.35 | 0.57 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG11 | 7 | 0.56 | 0.35 | 0.57 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG12 | 7 | 0.56 | 0.35 | 0.57 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 7 | 0.54 | 0.13 | 0.53 |
| (1,136) | 1:20:A:ASN:HB3 | 1:23:A:SER:HB3 | 7 | 0.5 | 0.32 | 0.38 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB2 | 7 | 0.5 | 0.32 | 0.38 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB3 | 7 | 0.5 | 0.32 | 0.38 |
| (1,474) | 1:89:A:VAL:HG21 | 1:86:A:ASP:H | 7 | 0.49 | 0.14 | 0.51 |
| (1,474) | 1:89:A:VAL:HG23 | 1:86:A:ASP:H | 7 | 0.49 | 0.14 | 0.51 |
| (1,474) | 1:89:A:VAL:HG22 | 1:86:A:ASP:H | 7 | 0.49 | 0.14 | 0.51 |
| (1,1940) | 1:58:A:LEU:HD23 | 1:62:A:MET:HB2 | 7 | 0.47 | 0.22 | 0.59 |
| (1,1940) | 1:58:A:LEU:HD21 | 1:62:A:MET:HB2 | 7 | 0.47 | 0.22 | 0.59 |
| (1,1940) | 1:58:A:LEU:HD22 | 1:62:A:MET:HB2 | 7 | 0.47 | 0.22 | 0.59 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 7 | 0.46 | 0.18 | 0.45 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 7 | 0.44 | 0.07 | 0.44 |
| (1,1119) | 1:21:A:LEU:HD22 | 1:21:A:LEU:HA | 7 | 0.44 | 0.07 | 0.44 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG22 | 7 | 0.41 | 0.18 | 0.44 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 7 | 0.41 | 0.18 | 0.44 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 7 | 0.41 | 0.18 | 0.44 |
| (1,1922) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HA | 7 | 0.38 | 0.2 | 0.3 |
| (1,1922) | 1:98:A:LEU:HD11 | 1:38:A:ILE:HA | 7 | 0.38 | 0.2 | 0.3 |
| (1,1922) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HA | 7 | 0.38 | 0.2 | 0.3 |
| (1,1751) | 1:30:A:ILE:HG23 | 1:35:A:LEU:H | 7 | 0.36 | 0.04 | 0.36 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1751) | 1:30:A:ILE:HG21 | 1:35:A:LEU:H | 7 | 0.36 | 0.04 | 0.36 |
| (1,1751) | 1:30:A:ILE:HG22 | 1:35:A:LEU:H | 7 | 0.36 | 0.04 | 0.36 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD22 | 7 | 0.33 | 0.17 | 0.37 |
| (1,193) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HB2 | 7 | 0.33 | 0.17 | 0.37 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD21 | 7 | 0.33 | 0.17 | 0.37 |
| (1,193) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HB2 | 7 | 0.33 | 0.17 | 0.37 |
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 7 | 0.32 | 0.09 | 0.35 |
| (1,1386) | 1:95:A:VAL:HG22 | 1:91:A:PHE:HZ | 7 | 0.32 | 0.09 | 0.35 |
| (1,1455) | 1:60:A:THR:HG22 | 1:45:A:PHE:HB3 | 7 | 0.29 | 0.17 | 0.19 |
| (1,1455) | 1:60:A:THR:HG23 | 1:45:A:PHE:HB3 | 7 | 0.29 | 0.17 | 0.19 |
| (1,1455) | 1:60:A:THR:HG21 | 1:45:A:PHE:HB3 | 7 | 0.29 | 0.17 | 0.19 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG23 | 7 | 0.27 | 0.04 | 0.27 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG21 | 7 | 0.27 | 0.04 | 0.27 |
| (1,1337) | 1:95:A:VAL:HG11 | 1:94:A:PHE:HB3 | 7 | 0.25 | 0.06 | 0.29 |
| (1,1337) | 1:95:A:VAL:HG13 | 1:94:A:PHE:HB3 | 7 | 0.25 | 0.06 | 0.29 |
| (1,1337) | 1:95:A:VAL:HG12 | 1:94:A:PHE:HB3 | 7 | 0.25 | 0.06 | 0.29 |
| (1,297) | 1:89:A:VAL:HG23 | 1:53:A:ILE:H | 7 | 0.25 | 0.08 | 0.26 |
| (1,297) | 1:53:A:ILE:H | 1:89:A:VAL:HG12 | 7 | 0.25 | 0.08 | 0.26 |
| (1,297) | 1:89:A:VAL:HG21 | 1:53:A:ILE:H | 7 | 0.25 | 0.08 | 0.26 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 7 | 0.24 | 0.05 | 0.25 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD21 | 7 | 0.18 | 0.03 | 0.18 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD22 | 7 | 0.18 | 0.03 | 0.18 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD23 | 7 | 0.18 | 0.03 | 0.18 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 7 | 0.14 | 0.04 | 0.13 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB2 | 7 | 0.14 | 0.04 | 0.13 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB3 | 7 | 0.14 | 0.04 | 0.13 |
| (1,1201) | 1:89:A:VAL:HG12 | 1:89:A:VAL:H | 7 | 0.11 | 0.02 | 0.11 |
| (1,1201) | 1:89:A:VAL:HG13 | 1:89:A:VAL:H | 7 | 0.11 | 0.02 | 0.11 |
| (1,1201) | 1:89:A:VAL:HG11 | 1:89:A:VAL:H | 7 | 0.11 | 0.02 | 0.11 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 7 | 0.1 | 0.0 | 0.1 |
| (1,96) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HG3 | 6 | 0.76 | 0.28 | 0.8 |
| (1,96) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HG3 | 6 | 0.76 | 0.28 | 0.8 |
| (1,1592) | 1:35:A:LEU:HD22 | 1:95:A:VAL:HG21 | 6 | 0.6 | 0.11 | 0.62 |
| (1,1592) | 1:35:A:LEU:HD22 | 1:95:A:VAL:HG22 | 6 | 0.6 | 0.11 | 0.62 |
| (1,1592) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HG21 | 6 | 0.6 | 0.11 | 0.62 |
| (1,1592) | 1:35:A:LEU:HD23 | 1:95:A:VAL:HG23 | 6 | 0.6 | 0.11 | 0.62 |
| (1,1592) | 1:35:A:LEU:HD23 | 1:95:A:VAL:HG22 | 6 | 0.6 | 0.11 | 0.62 |
| (1,1789) | 1:89:A:VAL:HG23 | 1:53:A:ILE:HD11 | 6 | 0.39 | 0.13 | 0.44 |
| (1,1789) | 1:89:A:VAL:HG22 | 1:53:A:ILE:HD13 | 6 | 0.39 | 0.13 | 0.44 |
| (1,1789) | 1:89:A:VAL:HG21 | 1:53:A:ILE:HD11 | 6 | 0.39 | 0.13 | 0.44 |
| (1,1789) | 1:89:A:VAL:HG22 | 1:53:A:ILE:HD12 | 6 | 0.39 | 0.13 | 0.44 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG22 | 6 | 0.35 | 0.12 | 0.36 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 6 | 0.35 | 0.12 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 6 | 0.35 | 0.12 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG11 | 6 | 0.35 | 0.12 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 6 | 0.35 | 0.12 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG12 | 6 | 0.35 | 0.12 | 0.36 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 6 | 0.27 | 0.06 | 0.26 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG23 | 6 | 0.25 | 0.13 | 0.24 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG21 | 6 | 0.25 | 0.13 | 0.24 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD21 | 6 | 0.24 | 0.06 | 0.24 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD22 | 6 | 0.24 | 0.06 | 0.24 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 6 | 0.23 | 0.09 | 0.24 |
| (1,1463) | 1:78:A:ILE:HD12 | 1:55:A:LYS:HG2 | 6 | 0.22 | 0.08 | 0.22 |
| (1,1463) | 1:78:A:ILE:HD11 | 1:55:A:LYS:HG2 | 6 | 0.22 | 0.08 | 0.22 |
| (1,1463) | 1:78:A:ILE:HD13 | 1:55:A:LYS:HG2 | 6 | 0.22 | 0.08 | 0.22 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG23 | 6 | 0.18 | 0.03 | 0.18 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG21 | 6 | 0.18 | 0.03 | 0.18 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG22 | 6 | 0.18 | 0.03 | 0.18 |
| (1,180) | 1:34:A:GLU:HB2 | 1:30:A:ILE:HB | 6 | 0.15 | 0.02 | 0.15 |
| (1,180) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HB | 6 | 0.15 | 0.02 | 0.15 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD13 | 5 | 0.78 | 0.58 | 0.41 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD11 | 5 | 0.78 | 0.58 | 0.41 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD12 | 5 | 0.78 | 0.58 | 0.41 |
| (1,1304) | 1:28:A:VAL:HG13 | 1:27:A:PRO:HA | 5 | 0.69 | 0.23 | 0.8 |
| (1,1304) | 1:28:A:VAL:HG11 | 1:27:A:PRO:HA | 5 | 0.69 | 0.23 | 0.8 |
| (1,1858) | 1:28:A:VAL:HG11 | 1:28:A:VAL:H | 5 | 0.65 | 0.07 | 0.66 |
| (1,1858) | 1:28:A:VAL:HG13 | 1:28:A:VAL:H | 5 | 0.65 | 0.07 | 0.66 |
| (1,1858) | 1:28:A:VAL:HG12 | 1:28:A:VAL:H | 5 | 0.65 | 0.07 | 0.66 |
| (1,164) | 1:26:A:ARG:HB3 | 1:28:A:VAL:HG21 | 5 | 0.58 | 0.27 | 0.61 |
| (1,164) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HB2 | 5 | 0.58 | 0.27 | 0.61 |
| (1,164) | 1:28:A:VAL:HG11 | 1:26:A:ARG:HB2 | 5 | 0.58 | 0.27 | 0.61 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 5 | 0.55 | 0.12 | 0.57 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 5 | 0.54 | 0.27 | 0.73 |
| (1,166) | 1:28:A:VAL:HG21 | 1:26:A:ARG:HD3 | 5 | 0.53 | 0.19 | 0.59 |
| (1,166) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HD2 | 5 | 0.53 | 0.19 | 0.59 |
| (1,166) | 1:28:A:VAL:HG11 | 1:26:A:ARG:HD2 | 5 | 0.53 | 0.19 | 0.59 |
| (1,166) | 1:28:A:VAL:HG22 | 1:26:A:ARG:HD3 | 5 | 0.53 | 0.19 | 0.59 |
| (1,166) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HD3 | 5 | 0.53 | 0.19 | 0.59 |
| (1,421) | 1:76:A:VAL:HG21 | 1:77:A:ILE:HG12 | 5 | 0.5 | 0.37 | 0.27 |
| (1,421) | 1:76:A:VAL:HG22 | 1:77:A:ILE:HG12 | 5 | 0.5 | 0.37 | 0.27 |
| (1,386) | 1:70:A:ASN:HB2 | 1:73:A:GLU:HB3 | 5 | 0.5 | 0.14 | 0.56 |
| (1,386) | 1:70:A:ASN:HB3 | 1:73:A:GLU:HB3 | 5 | 0.5 | 0.14 | 0.56 |
| (1,1182) | 1:58:A:LEU:HD21 | 1:61:A:ALA:HB2 | 5 | 0.43 | 0.25 | 0.51 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1182) | 1:58:A:LEU:HD22 | 1:61:A:ALA:HB2 | 5 | 0.43 | 0.25 | 0.51 |
| (1,1182) | 1:58:A:LEU:HD23 | 1:61:A:ALA:HB3 | 5 | 0.43 | 0.25 | 0.51 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 5 | 0.41 | 0.15 | 0.36 |
| (1,202) | 1:35:A:LEU:HA | 1:34:A:GLU:HG2 | 5 | 0.38 | 0.08 | 0.4 |
| (1,202) | 1:34:A:GLU:HG3 | 1:35:A:LEU:HA | 5 | 0.38 | 0.08 | 0.4 |
| (1,349) | 1:58:A:LEU:HD12 | 1:61:A:ALA:HB2 | 5 | 0.33 | 0.13 | 0.37 |
| (1,349) | 1:58:A:LEU:HD22 | 1:61:A:ALA:HB2 | 5 | 0.33 | 0.13 | 0.37 |
| (1,349) | 1:58:A:LEU:HD13 | 1:61:A:ALA:HB1 | 5 | 0.33 | 0.13 | 0.37 |
| (1,349) | 1:58:A:LEU:HD13 | 1:61:A:ALA:HB3 | 5 | 0.33 | 0.13 | 0.37 |
| (1,349) | 1:58:A:LEU:HD21 | 1:61:A:ALA:HB2 | 5 | 0.33 | 0.13 | 0.37 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 5 | 0.33 | 0.06 | 0.36 |
| (1,399) | 1:72:A:VAL:HG11 | 1:73:A:GLU:H | 5 | 0.29 | 0.05 | 0.32 |
| (1,399) | 1:72:A:VAL:HG23 | 1:73:A:GLU:H | 5 | 0.29 | 0.05 | 0.32 |
| (1,399) | 1:72:A:VAL:HG21 | 1:73:A:GLU:H | 5 | 0.29 | 0.05 | 0.32 |
| (1,399) | 1:72:A:VAL:HG22 | 1:73:A:GLU:H | 5 | 0.29 | 0.05 | 0.32 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD11 | 5 | 0.28 | 0.14 | 0.29 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD12 | 5 | 0.28 | 0.14 | 0.29 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG11 | 5 | 0.26 | 0.12 | 0.22 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG13 | 5 | 0.26 | 0.12 | 0.22 |
| (1,1901) | 1:58:A:LEU:HD21 | 1:42:A:PHE:HZ | 5 | 0.26 | 0.12 | 0.23 |
| (1,1901) | 1:58:A:LEU:HD23 | 1:42:A:PHE:HZ | 5 | 0.26 | 0.12 | 0.23 |
| (1,1901) | 1:58:A:LEU:HD22 | 1:42:A:PHE:HZ | 5 | 0.26 | 0.12 | 0.23 |
| (1,1348) | 1:53:A:ILE:HG21 | 1:58:A:LEU:HB3 | 5 | 0.24 | 0.12 | 0.24 |
| (1,1348) | 1:53:A:ILE:HG23 | 1:58:A:LEU:HB3 | 5 | 0.24 | 0.12 | 0.24 |
| (1,1348) | 1:53:A:ILE:HG22 | 1:58:A:LEU:HB3 | 5 | 0.24 | 0.12 | 0.24 |
| (1,347) | 1:58:A:LEU:HD22 | 1:59:A:GLY:H | 5 | 0.24 | 0.09 | 0.24 |
| (1,347) | 1:58:A:LEU:HD21 | 1:59:A:GLY:H | 5 | 0.24 | 0.09 | 0.24 |
| (1,347) | 1:58:A:LEU:HD11 | 1:59:A:GLY:H | 5 | 0.24 | 0.09 | 0.24 |
| (1,347) | 1:58:A:LEU:HD23 | 1:59:A:GLY:H | 5 | 0.24 | 0.09 | 0.24 |
| (1,1) | 1:21:A:LEU:HB3 | 1:18:A:VAL:H | 5 | 0.24 | 0.08 | 0.3 |
| (1,1) | 1:21:A:LEU:HB2 | 1:18:A:VAL:H | 5 | 0.24 | 0.08 | 0.3 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 5 | 0.24 | 0.07 | 0.27 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 5 | 0.24 | 0.21 | 0.14 |
| (1,1204) | 1:60:A:THR:HG22 | 1:45:A:PHE:HE1 | 5 | 0.21 | 0.04 | 0.19 |
| (1,1204) | 1:60:A:THR:HG23 | 1:45:A:PHE:HE1 | 5 | 0.21 | 0.04 | 0.19 |
| (1,1484) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HE1 | 5 | 0.21 | 0.08 | 0.18 |
| (1,1484) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HE1 | 5 | 0.21 | 0.08 | 0.18 |
| (1,1484) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HE1 | 5 | 0.21 | 0.08 | 0.18 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 5 | 0.2 | 0.05 | 0.18 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD11 | 5 | 0.16 | 0.06 | 0.12 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD12 | 5 | 0.16 | 0.06 | 0.12 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 5 | 0.15 | 0.02 | 0.14 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 5 | 0.12 | 0.01 | 0.13 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 5 | 0.12 | 0.01 | 0.12 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD13 | 4 | 0.72 | 0.56 | 0.43 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD11 | 4 | 0.72 | 0.56 | 0.43 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG23 | 4 | 0.62 | 0.36 | 0.43 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG21 | 4 | 0.62 | 0.36 | 0.43 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG22 | 4 | 0.62 | 0.36 | 0.43 |
| (1,315) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HG2 | 4 | 0.61 | 0.24 | 0.65 |
| (1,315) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HG2 | 4 | 0.61 | 0.24 | 0.65 |
| (1,216) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HA | 4 | 0.56 | 0.42 | 0.48 |
| (1,216) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HA | 4 | 0.56 | 0.42 | 0.48 |
| (1,216) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HA | 4 | 0.56 | 0.42 | 0.48 |
| (1,1923) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HG21 | 4 | 0.5 | 0.31 | 0.4 |
| (1,1923) | 1:98:A:LEU:HD11 | 1:38:A:ILE:HG21 | 4 | 0.5 | 0.31 | 0.4 |
| (1,1923) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HG22 | 4 | 0.5 | 0.31 | 0.4 |
| (1,1923) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HG21 | 4 | 0.5 | 0.31 | 0.4 |
| (1,1705) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 4 | 0.5 | 0.03 | 0.49 |
| (1,147) | 1:22:A:LEU:HD12 | 1:23:A:SER:HB3 | 4 | 0.49 | 0.13 | 0.51 |
| (1,147) | 1:22:A:LEU:HD11 | 1:23:A:SER:HB3 | 4 | 0.49 | 0.13 | 0.51 |
| (1,147) | 1:22:A:LEU:HD13 | 1:23:A:SER:HB3 | 4 | 0.49 | 0.13 | 0.51 |
| (1,520) | 1:98:A:LEU:HD23 | 1:95:A:VAL:HA | 4 | 0.48 | 0.27 | 0.5 |
| (1,520) | 1:98:A:LEU:HD21 | 1:95:A:VAL:HA | 4 | 0.48 | 0.27 | 0.5 |
| (1,317) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HG3 | 4 | 0.48 | 0.23 | 0.56 |
| (1,317) | 1:74:A:LEU:HD12 | 1:55:A:LYS:HG3 | 4 | 0.48 | 0.23 | 0.56 |
| (1,1490) | 1:15:A:ILE:HD11 | 1:16:A:TYR:H | 4 | 0.45 | 0.14 | 0.38 |
| (1,1490) | 1:15:A:ILE:HD13 | 1:16:A:TYR:H | 4 | 0.45 | 0.14 | 0.38 |
| (1,1490) | 1:15:A:ILE:HD12 | 1:16:A:TYR:H | 4 | 0.45 | 0.14 | 0.38 |
| (1,1347) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HD2 | 4 | 0.42 | 0.18 | 0.34 |
| (1,1347) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HD2 | 4 | 0.42 | 0.18 | 0.34 |
| (1,1759) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 4 | 0.4 | 0.17 | 0.44 |
| (1,159) | 1:26:A:ARG:HD3 | 1:26:A:ARG:H | 4 | 0.39 | 0.17 | 0.36 |
| (1,159) | 1:26:A:ARG:HD2 | 1:26:A:ARG:H | 4 | 0.39 | 0.17 | 0.36 |
| (1,1346) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HE2 | 4 | 0.38 | 0.27 | 0.32 |
| (1,1346) | 1:95:A:VAL:HG13 | 1:91:A:PHE:HE2 | 4 | 0.38 | 0.27 | 0.32 |
| (1,1346) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HE2 | 4 | 0.38 | 0.27 | 0.32 |
| (1,1256) | 1:62:A:MET:HA | 1:67:A:TYR:HB3 | 4 | 0.36 | 0.1 | 0.4 |
| (1,348) | 1:58:A:LEU:HD21 | 1:61:A:ALA:H | 4 | 0.34 | 0.06 | 0.33 |
| (1,348) | 1:58:A:LEU:HD12 | 1:61:A:ALA:H | 4 | 0.34 | 0.06 | 0.33 |
| (1,348) | 1:58:A:LEU:HD11 | 1:61:A:ALA:H | 4 | 0.34 | 0.06 | 0.33 |
| (1,348) | 1:58:A:LEU:HD22 | 1:61:A:ALA:H | 4 | 0.34 | 0.06 | 0.33 |
| (1,1907) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HZ | 4 | 0.32 | 0.13 | 0.34 |
| (1,1907) | 1:95:A:VAL:HG13 | 1:91:A:PHE:HZ | 4 | 0.32 | 0.13 | 0.34 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1907) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HZ | 4 | 0.32 | 0.13 | 0.34 |
| (1,4) | 1:22:A:LEU:HB3 | 1:24:A:GLU:H | 4 | 0.31 | 0.12 | 0.32 |
| (1,4) | 1:24:A:GLU:H | 1:22:A:LEU:HB2 | 4 | 0.31 | 0.12 | 0.32 |
| (1,133) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HG | 4 | 0.29 | 0.12 | 0.26 |
| (1,133) | 1:20:A:ASN:HB2 | 1:22:A:LEU:HG | 4 | 0.29 | 0.12 | 0.26 |
| (1,334) | 1:74:A:LEU:HD12 | 1:56:A:GLN:HG3 | 4 | 0.28 | 0.1 | 0.29 |
| (1,334) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HG2 | 4 | 0.28 | 0.1 | 0.29 |
| (1,334) | 1:74:A:LEU:HD13 | 1:56:A:GLN:HG3 | 4 | 0.28 | 0.1 | 0.29 |
| (1,75) | 1:74:A:LEU:HB2 | 1:75:A:GLU:HB2 | 4 | 0.26 | 0.07 | 0.23 |
| (1,309) | 1:74:A:LEU:HD11 | 1:55:A:LYS:H | 4 | 0.25 | 0.1 | 0.27 |
| (1,309) | 1:74:A:LEU:HD13 | 1:55:A:LYS:H | 4 | 0.25 | 0.1 | 0.27 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG2 | 4 | 0.25 | 0.02 | 0.26 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG3 | 4 | 0.25 | 0.02 | 0.26 |
| (1,451) | 1:89:A:VAL:HG23 | 1:81:A:LEU:H | 4 | 0.24 | 0.08 | 0.21 |
| (1,451) | 1:89:A:VAL:HG21 | 1:81:A:LEU:H | 4 | 0.24 | 0.08 | 0.21 |
| (1,466) | 1:84:A:ASP:HB3 | 1:83:A:MET:H | 4 | 0.24 | 0.07 | 0.28 |
| (1,374) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HE2 | 4 | 0.22 | 0.05 | 0.2 |
| (1,374) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HE2 | 4 | 0.22 | 0.05 | 0.2 |
| (1,374) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HE2 | 4 | 0.22 | 0.05 | 0.2 |
| (1,374) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HE1 | 4 | 0.22 | 0.05 | 0.2 |
| (1,310) | 1:58:A:LEU:HD22 | 1:55:A:LYS:HA | 4 | 0.21 | 0.05 | 0.22 |
| (1,310) | 1:58:A:LEU:HD11 | 1:55:A:LYS:HA | 4 | 0.21 | 0.05 | 0.22 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG23 | 4 | 0.2 | 0.06 | 0.2 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG21 | 4 | 0.2 | 0.06 | 0.2 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG21 | 4 | 0.2 | 0.09 | 0.15 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG22 | 4 | 0.2 | 0.09 | 0.15 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG23 | 4 | 0.2 | 0.09 | 0.15 |
| (1,208) | 1:36:A:GLU:HB2 | 1:35:A:LEU:HB3 | 4 | 0.19 | 0.11 | 0.16 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD11 | 4 | 0.19 | 0.04 | 0.19 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD12 | 4 | 0.19 | 0.04 | 0.19 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD13 | 4 | 0.19 | 0.04 | 0.19 |
| (1,42) | 1:43:A:LYS:HD2 | 1:43:A:LYS:H | 4 | 0.18 | 0.03 | 0.19 |
| (1,448) | 1:80:A:ARG:HB2 | 1:81:A:LEU:HB2 | 4 | 0.17 | 0.05 | 0.16 |
| (1,505) | 1:90:A:ASP:HB3 | 1:93:A:GLU:HB3 | 4 | 0.17 | 0.06 | 0.15 |
| (1,505) | 1:90:A:ASP:HB2 | 1:93:A:GLU:HB2 | 4 | 0.17 | 0.06 | 0.15 |
| (1,425) | 1:76:A:VAL:HG23 | 1:80:A:ARG:HG2 | 4 | 0.15 | 0.04 | 0.16 |
| (1,425) | 1:76:A:VAL:HG22 | 1:80:A:ARG:HG2 | 4 | 0.15 | 0.04 | 0.16 |
| (1,1212) | 1:25:A:GLN:HA | 1:26:A:ARG:H | 4 | 0.15 | 0.02 | 0.15 |
| (1,321) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HD3 | 3 | 1.11 | 0.13 | 1.05 |
| (1,1108) | 1:16:A:TYR:HA | 1:15:A:ILE:HD11 | 3 | 0.86 | 0.1 | 0.92 |
| (1,1108) | 1:16:A:TYR:HA | 1:15:A:ILE:HD12 | 3 | 0.86 | 0.1 | 0.92 |
| (1,1301) | 1:65:A:LEU:H | 1:61:A:ALA:HB2 | 3 | 0.77 | 0.12 | 0.81 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,108) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HB2 | 3 | 0.71 | 0.36 | 0.94 |
| (1,108) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HB2 | 3 | 0.71 | 0.36 | 0.94 |
| (1,108) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HB3 | 3 | 0.71 | 0.36 | 0.94 |
| (1,1491) | 1:16:A:TYR:HD1 | 1:15:A:ILE:HD11 | 3 | 0.65 | 0.17 | 0.72 |
| (1,1491) | 1:16:A:TYR:HD1 | 1:15:A:ILE:HD13 | 3 | 0.65 | 0.17 | 0.72 |
| (1,1731) | 1:35:A:LEU:HD13 | 1:38:A:ILE:HB | 3 | 0.65 | 0.14 | 0.71 |
| (1,1731) | 1:35:A:LEU:HD11 | 1:38:A:ILE:HB | 3 | 0.65 | 0.14 | 0.71 |
| (1,174) | 1:28:A:VAL:HG21 | 1:29:A:ASP:HA | 3 | 0.56 | 0.09 | 0.6 |
| (1,174) | 1:28:A:VAL:HG22 | 1:29:A:ASP:HA | 3 | 0.56 | 0.09 | 0.6 |
| (1,174) | 1:28:A:VAL:HG23 | 1:29:A:ASP:HA | 3 | 0.56 | 0.09 | 0.6 |
| (1,442) | 1:80:A:ARG:HG2 | 1:79:A:GLN:HG3 | 3 | 0.5 | 0.13 | 0.47 |
| (1,442) | 1:80:A:ARG:HG3 | 1:79:A:GLN:HG3 | 3 | 0.5 | 0.13 | 0.47 |
| (1,178) | 1:30:A:ILE:HG13 | 1:29:A:ASP:HA | 3 | 0.5 | 0.02 | 0.51 |
| (1,189) | 1:30:A:ILE:HG13 | 1:34:A:GLU:HG2 | 3 | 0.48 | 0.32 | 0.26 |
| (1,189) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HG13 | 3 | 0.48 | 0.32 | 0.26 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG23 | 3 | 0.47 | 0.2 | 0.57 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG22 | 3 | 0.47 | 0.2 | 0.57 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG21 | 3 | 0.47 | 0.2 | 0.57 |
| (1,115) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HB | 3 | 0.43 | 0.05 | 0.45 |
| (1,115) | 1:19:A:PRO:HD3 | 1:18:A:VAL:HB | 3 | 0.43 | 0.05 | 0.45 |
| (1,237) | 1:39:A:ARG:HA | 1:43:A:LYS:HG2 | 3 | 0.39 | 0.15 | 0.32 |
| (1,237) | 1:39:A:ARG:HA | 1:43:A:LYS:HG3 | 3 | 0.39 | 0.15 | 0.32 |
| (1,1187) | 1:27:A:PRO:HG2 | 1:28:A:VAL:H | 3 | 0.35 | 0.17 | 0.43 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD12 | 3 | 0.34 | 0.04 | 0.35 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD11 | 3 | 0.34 | 0.04 | 0.35 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD13 | 3 | 0.34 | 0.04 | 0.35 |
| (1,1747) | 1:30:A:ILE:HG23 | 1:31:A:PRO:HD3 | 3 | 0.34 | 0.13 | 0.41 |
| (1,1747) | 1:30:A:ILE:HG22 | 1:31:A:PRO:HD3 | 3 | 0.34 | 0.13 | 0.41 |
| (1,1747) | 1:30:A:ILE:HG21 | 1:31:A:PRO:HD3 | 3 | 0.34 | 0.13 | 0.41 |
| (1,539) | 1:15:A:ILE:HD13 | 1:14:A:GLY:H | 3 | 0.32 | 0.26 | 0.17 |
| (1,539) | 1:15:A:ILE:HD11 | 1:14:A:GLY:H | 3 | 0.32 | 0.26 | 0.17 |
| (1,9) | 1:69:A:PRO:HG3 | 1:61:A:ALA:H | 3 | 0.32 | 0.02 | 0.3 |
| (1,100) | 1:26:A:ARG:HG3 | 1:25:A:GLN:HG3 | 3 | 0.31 | 0.11 | 0.3 |
| (1,100) | 1:25:A:GLN:HG3 | 1:26:A:ARG:HG2 | 3 | 0.31 | 0.11 | 0.3 |
| (1,181) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HB | 3 | 0.29 | 0.06 | 0.3 |
| (1,1511) | 1:55:A:LYS:HD2 | 1:78:A:ILE:HG23 | 3 | 0.29 | 0.06 | 0.29 |
| (1,1511) | 1:55:A:LYS:HD2 | 1:78:A:ILE:HG21 | 3 | 0.29 | 0.06 | 0.29 |
| (1,931) | 1:72:A:VAL:HB | 1:72:A:VAL:H | 3 | 0.28 | 0.03 | 0.29 |
| (1,95) | 1:18:A:VAL:HA | 1:21:A:LEU:HB2 | 3 | 0.27 | 0.02 | 0.26 |
| (1,210) | 1:35:A:LEU:HD13 | 1:38:A:ILE:HB | 3 | 0.27 | 0.08 | 0.29 |
| (1,210) | 1:35:A:LEU:HD11 | 1:38:A:ILE:HB | 3 | 0.27 | 0.08 | 0.29 |
| (1,19) | 1:32:A:GLU:HG3 | 1:36:A:GLU:H | 3 | 0.25 | 0.1 | 0.3 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,19) | 1:32:A:GLU:HG2 | 1:36:A:GLU:H | 3 | 0.25 | 0.1 | 0.3 |
| (1,134) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HD21 | 3 | 0.25 | 0.13 | 0.17 |
| (1,134) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HD23 | 3 | 0.25 | 0.13 | 0.17 |
| (1,134) | 1:22:A:LEU:HD13 | 1:20:A:ASN:HB2 | 3 | 0.25 | 0.13 | 0.17 |
| (1,1671) | 1:61:A:ALA:HA | 1:42:A:PHE:HD1 | 3 | 0.25 | 0.05 | 0.23 |
| (1,1671) | 1:61:A:ALA:HA | 1:42:A:PHE:HD2 | 3 | 0.25 | 0.05 | 0.23 |
| (1,18) | 1:84:A:ASP:H | 1:93:A:GLU:HG2 | 3 | 0.24 | 0.06 | 0.27 |
| (1,119) | 1:18:A:VAL:HG22 | 1:21:A:LEU:HB2 | 3 | 0.23 | 0.13 | 0.15 |
| (1,119) | 1:18:A:VAL:HG11 | 1:21:A:LEU:HB2 | 3 | 0.23 | 0.13 | 0.15 |
| (1,119) | 1:18:A:VAL:HG12 | 1:21:A:LEU:HB2 | 3 | 0.23 | 0.13 | 0.15 |
| (1,293) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HB3 | 3 | 0.23 | 0.08 | 0.26 |
| (1,427) | 1:80:A:ARG:HD3 | 1:77:A:ILE:HA | 3 | 0.22 | 0.09 | 0.17 |
| (1,1911) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA3 | 3 | 0.21 | 0.08 | 0.23 |
| (1,1318) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HD11 | 3 | 0.21 | 0.07 | 0.17 |
| (1,1318) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HD12 | 3 | 0.21 | 0.07 | 0.17 |
| (1,417) | 1:76:A:VAL:HB | 1:79:A:GLN:HG3 | 3 | 0.19 | 0.02 | 0.19 |
| (1,1485) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HZ | 3 | 0.19 | 0.07 | 0.21 |
| (1,1485) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HZ | 3 | 0.19 | 0.07 | 0.21 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD13 | 3 | 0.19 | 0.01 | 0.19 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD11 | 3 | 0.19 | 0.01 | 0.19 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD12 | 3 | 0.19 | 0.01 | 0.19 |
| (1,1909) | 1:15:A:ILE:HA | 1:16:A:TYR:HE2 | 3 | 0.19 | 0.09 | 0.13 |
| (1,1909) | 1:15:A:ILE:HA | 1:16:A:TYR:HE1 | 3 | 0.19 | 0.09 | 0.13 |
| (1,1808) | 1:64:A:SER:HB3 | 1:60:A:THR:HG22 | 3 | 0.18 | 0.04 | 0.18 |
| (1,1808) | 1:64:A:SER:HB3 | 1:60:A:THR:HG23 | 3 | 0.18 | 0.04 | 0.18 |
| (1,186) | 1:30:A:ILE:HG13 | 1:31:A:PRO:HD2 | 3 | 0.18 | 0.01 | 0.19 |
| (1,186) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD2 | 3 | 0.18 | 0.01 | 0.19 |
| (1,1668) | 1:61:A:ALA:HA | 1:63:A:ARG:HG3 | 3 | 0.17 | 0.03 | 0.16 |
| (1,1689) | 1:88:A:GLN:HG2 | 1:52:A:PHE:HD2 | 3 | 0.16 | 0.04 | 0.16 |
| (1,120) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HA | 3 | 0.15 | 0.03 | 0.17 |
| (1,1353) | 1:78:A:ILE:HD13 | 1:89:A:VAL:HB | 3 | 0.15 | 0.04 | 0.13 |
| (1,1353) | 1:78:A:ILE:HD11 | 1:89:A:VAL:HB | 3 | 0.15 | 0.04 | 0.13 |
| (1,1353) | 1:78:A:ILE:HD12 | 1:89:A:VAL:HB | 3 | 0.15 | 0.04 | 0.13 |
| (1,648) | 1:50:A:ASN:H | 1:52:A:PHE:HE2 | 3 | 0.14 | 0.01 | 0.14 |
| (1,197) | 1:33:A:ASP:HB3 | 1:34:A:GLU:HG2 | 3 | 0.13 | 0.02 | 0.12 |
| (1,197) | 1:33:A:ASP:HB2 | 1:34:A:GLU:HG2 | 3 | 0.13 | 0.02 | 0.12 |
| (1,278) | 1:47:A:ARG:HG2 | 1:57:A:GLU:HG2 | 3 | 0.12 | 0.02 | 0.12 |
| (1,1433) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 3 | 0.12 | 0.02 | 0.11 |
| (1,155) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HA | 3 | 0.12 | 0.01 | 0.12 |
| (1,1095) | 1:92:A:GLU:HA | 1:95:A:VAL:HB | 3 | 0.11 | 0.0 | 0.11 |
| (1,591) | 1:41:A:ALA:H | 1:43:A:LYS:HE2 | 2 | 1.61 | 0.02 | 1.61 |
| (1,985) | 1:42:A:PHE:H | 1:43:A:LYS:HE2 | 2 | 1.56 | 0.01 | 1.56 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,194) | 1:35:A:LEU:HD22 | 1:32:A:GLU:HG3 | 2 | 0.9 | 0.38 | 0.9 |
| (1,194) | 1:35:A:LEU:HD23 | 1:32:A:GLU:HG3 | 2 | 0.9 | 0.38 | 0.9 |
| (1,456) | 1:81:A:LEU:HD21 | 1:89:A:VAL:HB | 2 | 0.9 | 0.24 | 0.9 |
| (1,456) | 1:81:A:LEU:HD22 | 1:89:A:VAL:HB | 2 | 0.9 | 0.24 | 0.9 |
| (1,230) | 1:39:A:ARG:HG3 | 1:38:A:ILE:HD13 | 2 | 0.76 | 0.6 | 0.76 |
| (1,230) | 1:39:A:ARG:HG2 | 1:38:A:ILE:HD12 | 2 | 0.76 | 0.6 | 0.76 |
| (1,1870) | 1:62:A:MET:HG2 | 1:58:A:LEU:HB2 | 2 | 0.68 | 0.4 | 0.68 |
| (1,400) | 1:72:A:VAL:HG13 | 1:73:A:GLU:HA | 2 | 0.64 | 0.15 | 0.64 |
| (1,400) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HA | 2 | 0.64 | 0.15 | 0.64 |
| (1,241) | 1:39:A:ARG:HG2 | 1:43:A:LYS:HD2 | 2 | 0.63 | 0.45 | 0.63 |
| (1,241) | 1:39:A:ARG:HG3 | 1:43:A:LYS:HD2 | 2 | 0.63 | 0.45 | 0.63 |
| (1,162) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 2 | 0.58 | 0.23 | 0.58 |
| (1,162) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 2 | 0.58 | 0.23 | 0.58 |
| (1,223) | 1:38:A:ILE:HB | 1:98:A:LEU:HD12 | 2 | 0.5 | 0.2 | 0.5 |
| (1,223) | 1:38:A:ILE:HB | 1:98:A:LEU:HD11 | 2 | 0.5 | 0.2 | 0.5 |
| (1,418) | 1:79:A:GLN:HE22 | 1:76:A:VAL:HB | 2 | 0.5 | 0.03 | 0.5 |
| (1,418) | 1:76:A:VAL:HB | 1:79:A:GLN:HE21 | 2 | 0.5 | 0.03 | 0.5 |
| (1,175) | 1:28:A:VAL:HG23 | 1:29:A:ASP:HB2 | 2 | 0.44 | 0.02 | 0.44 |
| (1,336) | 1:74:A:LEU:HD13 | 1:56:A:GLN:HE22 | 2 | 0.43 | 0.1 | 0.43 |
| (1,336) | 1:74:A:LEU:HD11 | 1:56:A:GLN:HE22 | 2 | 0.43 | 0.1 | 0.43 |
| (1,775) | 1:64:A:SER:HB2 | 1:65:A:LEU:H | 2 | 0.43 | 0.01 | 0.43 |
| (1,1939) | 1:58:A:LEU:HD23 | 1:62:A:MET:H | 2 | 0.42 | 0.04 | 0.42 |
| (1,1939) | 1:58:A:LEU:HD21 | 1:62:A:MET:H | 2 | 0.42 | 0.04 | 0.42 |
| (1,1310) | 1:74:A:LEU:HB2 | 1:78:A:ILE:HD11 | 2 | 0.38 | 0.19 | 0.38 |
| (1,1310) | 1:74:A:LEU:HB2 | 1:78:A:ILE:HD13 | 2 | 0.38 | 0.19 | 0.38 |
| (1,282) | 1:57:A:GLU:HB3 | 1:47:A:ARG:HD3 | 2 | 0.35 | 0.13 | 0.35 |
| (1,282) | 1:57:A:GLU:HB3 | 1:47:A:ARG:HD2 | 2 | 0.35 | 0.13 | 0.35 |
| (1,50) | 1:70:A:ASN:HA | 1:71:A:GLU:HG2 | 2 | 0.34 | 0.01 | 0.34 |
| (1,1521) | 1:89:A:VAL:HA | 1:78:A:ILE:HG23 | 2 | 0.33 | 0.04 | 0.33 |
| (1,1521) | 1:89:A:VAL:HA | 1:78:A:ILE:HG21 | 2 | 0.33 | 0.04 | 0.33 |
| (1,355) | 1:63:A:ARG:HD3 | 1:60:A:THR:HG23 | 2 | 0.32 | 0.16 | 0.32 |
| (1,355) | 1:63:A:ARG:HD3 | 1:60:A:THR:HG22 | 2 | 0.32 | 0.16 | 0.32 |
| (1,335) | 1:56:A:GLN:HE22 | 1:71:A:GLU:HA | 2 | 0.28 | 0.1 | 0.28 |
| (1,335) | 1:71:A:GLU:HA | 1:56:A:GLN:HE21 | 2 | 0.28 | 0.1 | 0.28 |
| (1,326) | 1:56:A:GLN:H | 1:56:A:GLN:HG3 | 2 | 0.26 | 0.03 | 0.26 |
| (1,1899) | 1:42:A:PHE:HZ | 1:61:A:ALA:HB3 | 2 | 0.26 | 0.08 | 0.26 |
| (1,1899) | 1:42:A:PHE:HZ | 1:61:A:ALA:HB1 | 2 | 0.26 | 0.08 | 0.26 |
| (1,382) | 1:72:A:VAL:HB | 1:70:A:ASN:HB2 | 2 | 0.26 | 0.01 | 0.26 |
| (1,601) | 1:43:A:LYS:H | 1:43:A:LYS:HE2 | 2 | 0.26 | 0.05 | 0.26 |
| (1,1270) | 1:55:A:LYS:HB3 | 1:78:A:ILE:HD11 | 2 | 0.24 | 0.07 | 0.24 |
| (1,1385) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HE2 | 2 | 0.23 | 0.05 | 0.23 |
| (1,1918) | 1:22:A:LEU:HD13 | 1:23:A:SER:HB3 | 2 | 0.23 | 0.09 | 0.23 |

Continued on next page...

Continued from previous page...

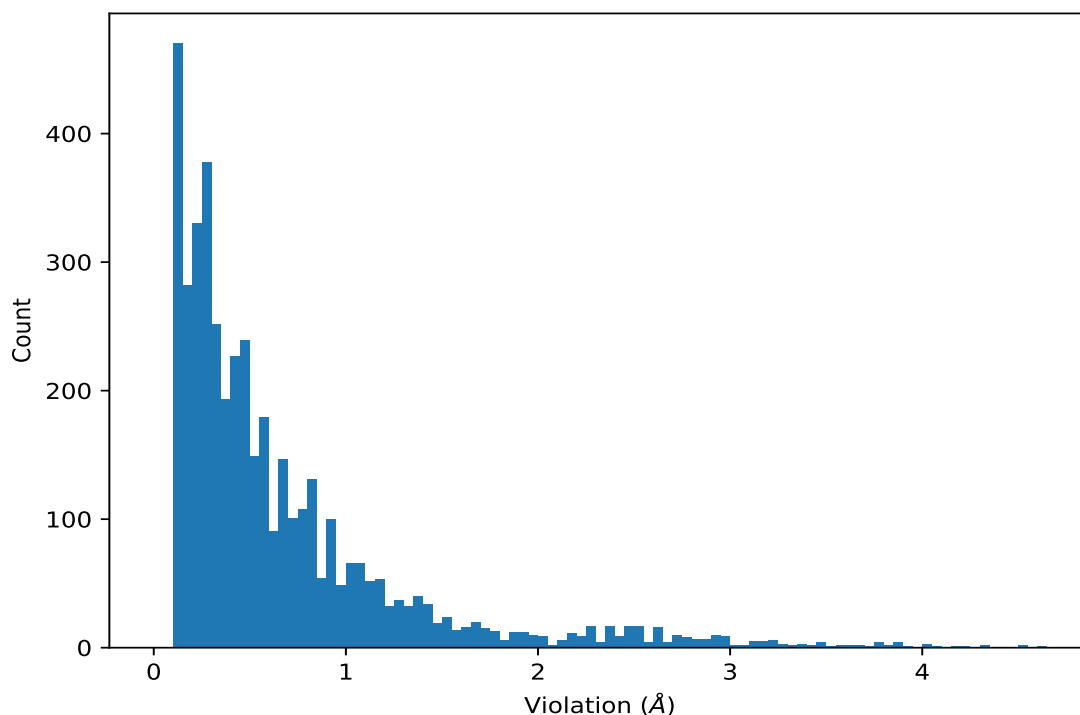
| Key | Atom-1 | Atom-2 | Models ¹ | Mean (Å) | SD ¹ (Å) | Median (Å) |
|----------|-----------------|-----------------|---------------------|----------|---------------------|------------|
| (1,1918) | 1:22:A:LEU:HD11 | 1:23:A:SER:HB3 | 2 | 0.23 | 0.09 | 0.23 |
| (1,206) | 1:35:A:LEU:HA | 1:35:A:LEU:HD21 | 2 | 0.23 | 0.02 | 0.23 |
| (1,206) | 1:35:A:LEU:HA | 1:35:A:LEU:HD23 | 2 | 0.23 | 0.02 | 0.23 |
| (1,173) | 1:28:A:VAL:HG11 | 1:29:A:ASP:H | 2 | 0.21 | 0.09 | 0.21 |
| (1,173) | 1:28:A:VAL:HG13 | 1:29:A:ASP:H | 2 | 0.21 | 0.09 | 0.21 |
| (1,291) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HA | 2 | 0.2 | 0.09 | 0.2 |
| (1,192) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HA | 2 | 0.18 | 0.06 | 0.18 |
| (1,192) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HA | 2 | 0.18 | 0.06 | 0.18 |
| (1,870) | 1:88:A:GLN:HB2 | 1:89:A:VAL:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,1404) | 1:79:A:GLN:H | 1:77:A:ILE:HG21 | 2 | 0.16 | 0.04 | 0.16 |
| (1,550) | 1:18:A:VAL:HG11 | 1:18:A:VAL:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,550) | 1:18:A:VAL:HG13 | 1:18:A:VAL:H | 2 | 0.16 | 0.02 | 0.16 |
| (1,1046) | 1:53:A:ILE:HD12 | 1:89:A:VAL:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,1046) | 1:53:A:ILE:HD11 | 1:89:A:VAL:H | 2 | 0.15 | 0.03 | 0.15 |
| (1,1387) | 1:95:A:VAL:HG23 | 1:91:A:PHE:HD2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1387) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HD2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,569) | 1:28:A:VAL:HG23 | 1:29:A:ASP:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,569) | 1:28:A:VAL:HG21 | 1:29:A:ASP:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,1088) | 1:59:A:GLY:H | 1:53:A:ILE:HG22 | 2 | 0.14 | 0.01 | 0.14 |
| (1,1384) | 1:98:A:LEU:H | 1:95:A:VAL:HG23 | 2 | 0.14 | 0.02 | 0.14 |
| (1,66) | 1:78:A:ILE:H | 1:80:A:ARG:HG2 | 2 | 0.13 | 0.01 | 0.13 |
| (1,1951) | 1:94:A:PHE:H | 1:89:A:VAL:HG12 | 2 | 0.12 | 0.0 | 0.12 |
| (1,1951) | 1:94:A:PHE:H | 1:89:A:VAL:HG13 | 2 | 0.12 | 0.0 | 0.12 |

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1916) | 1:21:A:LEU:HD23 | 1:19:A:PRO:HB3 | 13 | 4.63 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 18 | 4.54 |
| (1,1916) | 1:21:A:LEU:HD21 | 1:19:A:PRO:HB3 | 14 | 4.5 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 12 | 4.35 |
| (1,1916) | 1:21:A:LEU:HD21 | 1:19:A:PRO:HB3 | 1 | 4.3 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 9 | 4.21 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 14 | 4.16 |
| (1,127) | 1:19:A:PRO:HD3 | 1:21:A:LEU:HD23 | 3 | 4.07 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 15 | 4.03 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD23 | 5 | 4.01 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD12 | 10 | 4.0 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD11 | 6 | 3.92 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 3 | 3.87 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 5 | 3.86 |
| (1,1916) | 1:21:A:LEU:HD21 | 1:19:A:PRO:HB3 | 6 | 3.86 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD13 | 5 | 3.85 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 11 | 3.83 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD13 | 1 | 3.81 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD11 | 6 | 3.8 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD13 | 18 | 3.79 |
| (1,1338) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG13 | 8 | 3.78 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 6 | 3.76 |
| (1,1342) | 1:95:A:VAL:HG13 | 1:39:A:ARG:H | 16 | 3.7 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD11 | 14 | 3.69 |
| (1,1342) | 1:95:A:VAL:HG11 | 1:39:A:ARG:H | 8 | 3.66 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD13 | 13 | 3.64 |
| (1,1342) | 1:95:A:VAL:HG13 | 1:39:A:ARG:H | 9 | 3.62 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 16 | 3.58 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 14 | 3.57 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 16 | 3.55 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 8 | 3.48 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 9 | 3.48 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 15 | 3.48 |
| (1,1333) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HA | 11 | 3.47 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD21 | 13 | 3.44 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 15 | 3.42 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 11 | 3.39 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD11 | 6 | 3.39 |
| (1,1342) | 1:95:A:VAL:HG13 | 1:39:A:ARG:H | 19 | 3.38 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 16 | 3.34 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 6 | 3.31 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 9 | 3.29 |
| (1,1926) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB3 | 15 | 3.28 |
| (1,1338) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG13 | 11 | 3.25 |
| (1,1926) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB3 | 16 | 3.24 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD21 | 18 | 3.24 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG13 | 16 | 3.23 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD11 | 12 | 3.22 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 12 | 3.21 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 9 | 3.2 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 5 | 3.19 |
| (1,1342) | 1:95:A:VAL:HG11 | 1:39:A:ARG:H | 15 | 3.19 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 6 | 3.19 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 19 | 3.16 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 10 | 3.16 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 19 | 3.15 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG13 | 9 | 3.15 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD11 | 15 | 3.14 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 2 | 3.12 |
| (1,1342) | 1:95:A:VAL:HG11 | 1:39:A:ARG:H | 6 | 3.11 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 1 | 3.07 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG23 | 2 | 3.07 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG13 | 19 | 3.03 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 10 | 3.01 |
| (1,1926) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB3 | 5 | 2.98 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 20 | 2.98 |
| (1,1943) | 1:58:A:LEU:HD22 | 1:78:A:ILE:H | 20 | 2.97 |
| (1,1943) | 1:58:A:LEU:HD21 | 1:78:A:ILE:H | 16 | 2.96 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 11 | 2.96 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG23 | 1 | 2.96 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 19 | 2.96 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD12 | 12 | 2.96 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG23 | 9 | 2.95 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD23 | 14 | 2.94 |
| (1,1943) | 1:58:A:LEU:HD21 | 1:78:A:ILE:H | 15 | 2.93 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 3 | 2.93 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 10 | 2.92 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 11 | 2.92 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 15 | 2.92 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 16 | 2.92 |
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 1 | 2.92 |
| (1,1340) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG23 | 8 | 2.92 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD12 | 18 | 2.91 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG21 | 6 | 2.89 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 3 | 2.86 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 3 | 2.86 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG11 | 8 | 2.86 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 4 | 2.85 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG12 | 8 | 2.85 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG12 | 8 | 2.85 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 8 | 2.84 |
| (1,1371) | 1:93:A:GLU:HA | 1:95:A:VAL:HG22 | 11 | 2.84 |
| (1,1341) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG13 | 10 | 2.84 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 1 | 2.83 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 2 | 2.83 |
| (1,1338) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG13 | 15 | 2.83 |
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 2 | 2.81 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 15 | 2.78 |
| (1,1926) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB3 | 11 | 2.77 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 15 | 2.76 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD22 | 11 | 2.76 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 15 | 2.76 |
| (1,1342) | 1:95:A:VAL:HG13 | 1:39:A:ARG:H | 10 | 2.75 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG11 | 15 | 2.75 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 18 | 2.75 |
| (1,1943) | 1:58:A:LEU:HD22 | 1:78:A:ILE:H | 5 | 2.74 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG11 | 16 | 2.74 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 15 | 2.73 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG21 | 16 | 2.73 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 4 | 2.73 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG13 | 11 | 2.71 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 5 | 2.71 |
| (1,1941) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 17 | 2.7 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 1 | 2.7 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD12 | 2 | 2.7 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG23 | 19 | 2.68 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD12 | 15 | 2.68 |
| (1,1333) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HA | 2 | 2.67 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 3 | 2.66 |
| (1,1943) | 1:58:A:LEU:HD21 | 1:78:A:ILE:H | 1 | 2.65 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 7 | 2.65 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD23 | 9 | 2.65 |
| (1,1338) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG13 | 2 | 2.64 |
| (1,1926) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB3 | 20 | 2.63 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG11 | 9 | 2.63 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 14 | 2.63 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 8 | 2.62 |
| (1,1340) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG21 | 11 | 2.62 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 9 | 2.62 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 5 | 2.61 |
| (1,1943) | 1:58:A:LEU:HD22 | 1:78:A:ILE:H | 2 | 2.61 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 2 | 2.61 |
| (1,1338) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG13 | 10 | 2.61 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG13 | 16 | 2.6 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG12 | 6 | 2.6 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD13 | 7 | 2.59 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD13 | 13 | 2.58 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD11 | 17 | 2.57 |
| (1,383) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HB2 | 4 | 2.56 |
| (1,1338) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG13 | 1 | 2.55 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD22 | 11 | 2.55 |
| (1,1941) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 18 | 2.54 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 18 | 2.54 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 17 | 2.54 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD21 | 13 | 2.54 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD13 | 14 | 2.53 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD23 | 1 | 2.53 |
| (1,521) | 1:95:A:VAL:HG11 | 1:98:A:LEU:HB2 | 9 | 2.52 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 17 | 2.52 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD13 | 18 | 2.51 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD21 | 19 | 2.51 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 10 | 2.5 |
| (1,1941) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 2 | 2.5 |
| (1,1333) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HA | 1 | 2.5 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD23 | 15 | 2.5 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 17 | 2.5 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 17 | 2.49 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 8 | 2.49 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG11 | 19 | 2.49 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG13 | 11 | 2.49 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD21 | 1 | 2.48 |
| (1,1340) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG23 | 6 | 2.48 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 5 | 2.48 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 8 | 2.47 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD22 | 6 | 2.47 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 10 | 2.47 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG11 | 6 | 2.47 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 2 | 2.46 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG13 | 19 | 2.46 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 10 | 2.46 |
| (1,1941) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 8 | 2.45 |
| (1,1377) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HB2 | 6 | 2.45 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG13 | 8 | 2.45 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD23 | 8 | 2.44 |
| (1,1377) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HB2 | 2 | 2.44 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG21 | 9 | 2.44 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG11 | 10 | 2.44 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 15 | 2.44 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 18 | 2.43 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD23 | 2 | 2.43 |
| (1,1377) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HB2 | 1 | 2.43 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 2 | 2.41 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 18 | 2.4 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 18 | 2.4 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD12 | 8 | 2.39 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 3 | 2.39 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD12 | 8 | 2.39 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD21 | 13 | 2.39 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 17 | 2.38 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 15 | 2.38 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 17 | 2.37 |
| (1,1377) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HB2 | 9 | 2.37 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 1 | 2.37 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 1 | 2.37 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD23 | 18 | 2.36 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD21 | 9 | 2.36 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 8 | 2.35 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 16 | 2.35 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG13 | 11 | 2.35 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD22 | 15 | 2.34 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 11 | 2.33 |
| (1,1941) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 11 | 2.31 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 19 | 2.31 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 11 | 2.3 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 20 | 2.29 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 1 | 2.29 |
| (1,1914) | 1:21:A:LEU:HD23 | 1:18:A:VAL:HB | 3 | 2.28 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 16 | 2.28 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD23 | 4 | 2.28 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG13 | 10 | 2.28 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 12 | 2.28 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 9 | 2.27 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 15 | 2.27 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 8 | 2.27 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 2 | 2.27 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD23 | 16 | 2.26 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 2 | 2.26 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 1 | 2.25 |
| (1,536) | 1:99:A:GLY:HA2 | 1:98:A:LEU:HD21 | 1 | 2.25 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 5 | 2.25 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 8 | 2.24 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 4 | 2.24 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 9 | 2.24 |
| (1,137) | 1:22:A:LEU:HD13 | 1:20:A:ASN:HD22 | 17 | 2.23 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD13 | 16 | 2.22 |
| (1,1943) | 1:58:A:LEU:HD21 | 1:78:A:ILE:H | 8 | 2.21 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 11 | 2.21 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 20 | 2.2 |
| (1,1916) | 1:21:A:LEU:HD23 | 1:19:A:PRO:HB3 | 10 | 2.2 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 2 | 2.19 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 5 | 2.19 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 10 | 2.19 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG11 | 9 | 2.19 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 8 | 2.19 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 15 | 2.18 |
| (1,1376) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HG3 | 6 | 2.18 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD21 | 8 | 2.18 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 1 | 2.17 |
| (1,1340) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG22 | 15 | 2.17 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD23 | 5 | 2.15 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG11 | 15 | 2.14 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 9 | 2.14 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG11 | 6 | 2.11 |
| (1,1340) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG23 | 1 | 2.11 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD13 | 6 | 2.1 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 2 | 2.1 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 13 | 2.08 |
| (1,1926) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB3 | 18 | 2.06 |
| (1,1945) | 1:58:A:LEU:HD13 | 1:89:A:VAL:HB | 8 | 2.05 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 15 | 2.05 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 19 | 2.05 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 11 | 2.02 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG23 | 9 | 2.02 |
| (1,1945) | 1:58:A:LEU:HD13 | 1:89:A:VAL:HB | 16 | 2.01 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 16 | 2.01 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 3 | 2.01 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 16 | 2.0 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 18 | 1.99 |
| (1,1941) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 3 | 1.99 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 10 | 1.99 |
| (1,1340) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG21 | 2 | 1.99 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD12 | 19 | 1.96 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG23 | 1 | 1.96 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 8 | 1.96 |
| (1,1340) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HG22 | 10 | 1.96 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG11 | 10 | 1.96 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD22 | 12 | 1.96 |
| (1,1945) | 1:58:A:LEU:HD13 | 1:89:A:VAL:HB | 20 | 1.95 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG21 | 1 | 1.94 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG21 | 2 | 1.94 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 16 | 1.94 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG22 | 6 | 1.93 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 11 | 1.93 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 19 | 1.93 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD12 | 15 | 1.92 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 15 | 1.92 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 3 | 1.91 |
| (1,1945) | 1:58:A:LEU:HD12 | 1:89:A:VAL:HB | 17 | 1.91 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG22 | 10 | 1.91 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 7 | 1.9 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG13 | 2 | 1.9 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG12 | 15 | 1.9 |
| (1,1946) | 1:72:A:VAL:HG13 | 1:73:A:GLU:HG3 | 19 | 1.89 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 3 | 1.89 |
| (1,1941) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 20 | 1.87 |
| (1,1472) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HD13 | 11 | 1.87 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 15 | 1.87 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG21 | 9 | 1.86 |
| (1,1339) | 1:38:A:ILE:HG12 | 1:95:A:VAL:HG13 | 1 | 1.86 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD23 | 1 | 1.85 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 16 | 1.85 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG23 | 2 | 1.84 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 8 | 1.82 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 4 | 1.82 |
| (1,1916) | 1:21:A:LEU:HD23 | 1:19:A:PRO:HB3 | 19 | 1.81 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 16 | 1.8 |
| (1,1370) | 1:96:A:THR:HB | 1:95:A:VAL:HG21 | 6 | 1.8 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 20 | 1.79 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 10 | 1.79 |
| (1,1914) | 1:21:A:LEU:HD23 | 1:18:A:VAL:HB | 15 | 1.79 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG12 | 1 | 1.79 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 8 | 1.78 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD12 | 9 | 1.78 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 15 | 1.78 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 19 | 1.78 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 3 | 1.77 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 16 | 1.77 |
| (1,1941) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 5 | 1.76 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG13 | 10 | 1.76 |
| (1,1944) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 20 | 1.75 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 7 | 1.74 |
| (1,1422) | 1:38:A:ILE:HB | 1:95:A:VAL:HG12 | 2 | 1.74 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 12 | 1.73 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 14 | 1.73 |
| (1,1378) | 1:92:A:GLU:HB3 | 1:95:A:VAL:HG23 | 11 | 1.73 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 20 | 1.73 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 13 | 1.73 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 17 | 1.73 |
| (1,1944) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 5 | 1.72 |
| (1,1944) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 16 | 1.72 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 11 | 1.72 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 4 | 1.72 |
| (1,1945) | 1:58:A:LEU:HD11 | 1:89:A:VAL:HB | 11 | 1.71 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD11 | 10 | 1.71 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 20 | 1.71 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 7 | 1.7 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 18 | 1.7 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 1 | 1.7 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 13 | 1.7 |
| (1,1945) | 1:58:A:LEU:HD13 | 1:89:A:VAL:HB | 15 | 1.69 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 20 | 1.69 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 9 | 1.69 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 16 | 1.69 |
| (1,1944) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 15 | 1.68 |
| (1,1941) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 15 | 1.68 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD11 | 1 | 1.68 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD13 | 8 | 1.68 |
| (1,1944) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 11 | 1.67 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD12 | 16 | 1.67 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 10 | 1.67 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 10 | 1.67 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 15 | 1.67 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD11 | 10 | 1.66 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 6 | 1.66 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 9 | 1.66 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 3 | 1.65 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 15 | 1.65 |
| (1,86) | 1:32:A:GLU:HG2 | 1:35:A:LEU:HD21 | 14 | 1.65 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 20 | 1.64 |
| (1,591) | 1:41:A:ALA:H | 1:43:A:LYS:HE2 | 10 | 1.63 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB2 | 19 | 1.63 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD11 | 14 | 1.63 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1945) | 1:58:A:LEU:HD11 | 1:89:A:VAL:HB | 5 | 1.62 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 13 | 1.62 |
| (1,1772) | 1:95:A:VAL:HG13 | 1:92:A:GLU:HG3 | 7 | 1.61 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 3 | 1.6 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 8 | 1.6 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 19 | 1.6 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 20 | 1.6 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB3 | 10 | 1.6 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 7 | 1.6 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 3 | 1.59 |
| (1,591) | 1:41:A:ALA:H | 1:43:A:LYS:HE2 | 20 | 1.59 |
| (1,985) | 1:42:A:PHE:H | 1:43:A:LYS:HE2 | 10 | 1.57 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 11 | 1.57 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 10 | 1.57 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 11 | 1.56 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 5 | 1.56 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 9 | 1.56 |
| (1,985) | 1:42:A:PHE:H | 1:43:A:LYS:HE2 | 20 | 1.56 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 7 | 1.56 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 2 | 1.56 |
| (1,1930) | 1:58:A:LEU:HD12 | 1:53:A:ILE:HD12 | 5 | 1.55 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD13 | 20 | 1.55 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 7 | 1.55 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD12 | 18 | 1.54 |
| (1,478) | 1:86:A:ASP:HB3 | 1:88:A:GLN:HG2 | 2 | 1.54 |
| (1,389) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD21 | 4 | 1.54 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 18 | 1.53 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 13 | 1.53 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 2 | 1.53 |
| (1,1042) | 1:53:A:ILE:HD12 | 1:58:A:LEU:HB3 | 8 | 1.53 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG11 | 7 | 1.53 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD12 | 4 | 1.52 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD13 | 15 | 1.52 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 13 | 1.52 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 20 | 1.52 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 4 | 1.52 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 15 | 1.52 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG11 | 9 | 1.52 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 9 | 1.52 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 15 | 1.52 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 7 | 1.52 |
| (1,389) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD21 | 17 | 1.52 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD23 | 8 | 1.52 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 15 | 1.51 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 6 | 1.5 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 10 | 1.5 |
| (1,383) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HB2 | 7 | 1.5 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 2 | 1.49 |
| (1,1914) | 1:21:A:LEU:HD22 | 1:18:A:VAL:HB | 14 | 1.49 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 7 | 1.49 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 4 | 1.49 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 20 | 1.49 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG12 | 11 | 1.49 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 12 | 1.49 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 4 | 1.49 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 4 | 1.48 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 20 | 1.48 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 1 | 1.48 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 5 | 1.47 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD11 | 4 | 1.47 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 19 | 1.47 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD11 | 8 | 1.46 |
| (1,1929) | 1:58:A:LEU:HD11 | 1:45:A:PHE:HB2 | 16 | 1.46 |
| (1,1927) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HD2 | 11 | 1.46 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 19 | 1.46 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 1 | 1.46 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD11 | 11 | 1.45 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD12 | 14 | 1.45 |
| (1,1944) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 3 | 1.45 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 13 | 1.45 |
| (1,1472) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HD11 | 15 | 1.45 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 12 | 1.45 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 18 | 1.45 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 7 | 1.45 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 5 | 1.45 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD11 | 2 | 1.45 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD12 | 6 | 1.45 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD12 | 8 | 1.45 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD13 | 17 | 1.44 |
| (1,1944) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 1 | 1.44 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 15 | 1.44 |
| (1,1472) | 1:95:A:VAL:HG11 | 1:38:A:ILE:HD12 | 10 | 1.44 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 7 | 1.44 |
| (1,1942) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG2 | 1 | 1.43 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 10 | 1.43 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 5 | 1.43 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 4 | 1.43 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 6 | 1.43 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD13 | 5 | 1.43 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD13 | 18 | 1.43 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 3 | 1.42 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 17 | 1.42 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 15 | 1.42 |
| (1,1042) | 1:53:A:ILE:HD12 | 1:58:A:LEU:HB3 | 15 | 1.42 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD13 | 13 | 1.42 |
| (1,35) | 1:55:A:LYS:HE3 | 1:78:A:ILE:HD13 | 9 | 1.42 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 7 | 1.41 |
| (1,1927) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HD2 | 5 | 1.41 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 13 | 1.41 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 19 | 1.41 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 16 | 1.4 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 14 | 1.4 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 16 | 1.4 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD21 | 17 | 1.4 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 8 | 1.39 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD12 | 1 | 1.39 |
| (1,1930) | 1:58:A:LEU:HD11 | 1:53:A:ILE:HD12 | 8 | 1.39 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 19 | 1.39 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 1 | 1.39 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 11 | 1.39 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 18 | 1.39 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 5 | 1.38 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 17 | 1.38 |
| (1,1472) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HD11 | 2 | 1.38 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 13 | 1.38 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 1 | 1.38 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 16 | 1.37 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 18 | 1.37 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 2 | 1.37 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 17 | 1.37 |
| (1,401) | 1:72:A:VAL:HG11 | 1:75:A:GLU:HB3 | 1 | 1.37 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 14 | 1.37 |
| (1,230) | 1:39:A:ARG:HG2 | 1:38:A:ILE:HD12 | 7 | 1.37 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 1 | 1.37 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 7 | 1.37 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD13 | 16 | 1.37 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 12 | 1.36 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 17 | 1.36 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 16 | 1.36 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 18 | 1.36 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 5 | 1.36 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 10 | 1.36 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 12 | 1.36 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD11 | 10 | 1.36 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 17 | 1.36 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 12 | 1.35 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 14 | 1.35 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG11 | 16 | 1.35 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 15 | 1.35 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 4 | 1.35 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 9 | 1.34 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD13 | 5 | 1.34 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 6 | 1.34 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 11 | 1.34 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 11 | 1.34 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 17 | 1.34 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 14 | 1.34 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 11 | 1.34 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD11 | 15 | 1.33 |
| (1,1941) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 16 | 1.33 |
| (1,1472) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HD13 | 1 | 1.33 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 19 | 1.33 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 8 | 1.33 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB2 | 1 | 1.33 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 1 | 1.33 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD13 | 18 | 1.32 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 15 | 1.32 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 8 | 1.32 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 13 | 1.32 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 20 | 1.31 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 10 | 1.31 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 15 | 1.31 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 6 | 1.31 |
| (1,1929) | 1:58:A:LEU:HD12 | 1:45:A:PHE:HB2 | 5 | 1.3 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 14 | 1.3 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 15 | 1.3 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 16 | 1.3 |
| (1,1180) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 17 | 1.3 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 17 | 1.3 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 6 | 1.3 |
| (1,321) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HD3 | 1 | 1.3 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD11 | 20 | 1.3 |
| (1,1927) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HD2 | 1 | 1.29 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 20 | 1.29 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 6 | 1.29 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 12 | 1.29 |
| (1,1927) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HD2 | 3 | 1.28 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 5 | 1.28 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 7 | 1.28 |
| (1,204) | 1:35:A:LEU:HD23 | 1:34:A:GLU:HG2 | 14 | 1.28 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 5 | 1.28 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 19 | 1.27 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 16 | 1.27 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 16 | 1.27 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 7 | 1.27 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 7 | 1.27 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 8 | 1.27 |
| (1,194) | 1:35:A:LEU:HD23 | 1:32:A:GLU:HG3 | 4 | 1.27 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 12 | 1.27 |
| (1,1944) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 2 | 1.26 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD11 | 3 | 1.26 |
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD13 | 17 | 1.26 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 15 | 1.26 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 6 | 1.26 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 3 | 1.26 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 4 | 1.26 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 10 | 1.26 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 20 | 1.26 |
| (1,1944) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 17 | 1.25 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 14 | 1.25 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 3 | 1.25 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 11 | 1.25 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 15 | 1.25 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 9 | 1.25 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 14 | 1.25 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG23 | 16 | 1.25 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 1 | 1.25 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD13 | 1 | 1.25 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD13 | 15 | 1.25 |
| (1,1930) | 1:58:A:LEU:HD12 | 1:53:A:ILE:HD11 | 11 | 1.24 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 17 | 1.24 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 1 | 1.24 |
| (1,1382) | 1:95:A:VAL:HG22 | 1:92:A:GLU:H | 6 | 1.24 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 12 | 1.24 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 12 | 1.24 |
| (1,188) | 1:30:A:ILE:HG12 | 1:34:A:GLU:HB2 | 8 | 1.24 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 2 | 1.23 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 1 | 1.23 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 7 | 1.23 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 7 | 1.23 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 6 | 1.23 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 8 | 1.23 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 12 | 1.23 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB2 | 14 | 1.23 |
| (1,372) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HB3 | 14 | 1.23 |
| (1,1942) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG2 | 17 | 1.22 |
| (1,1929) | 1:58:A:LEU:HD11 | 1:45:A:PHE:HB2 | 15 | 1.22 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 4 | 1.22 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 17 | 1.22 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 2 | 1.22 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 16 | 1.22 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 2 | 1.22 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 5 | 1.22 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 13 | 1.21 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 5 | 1.21 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 17 | 1.21 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 5 | 1.21 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 14 | 1.21 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB3 | 11 | 1.21 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 1 | 1.21 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 3 | 1.21 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 1 | 1.2 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 8 | 1.2 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 8 | 1.2 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 2 | 1.2 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 20 | 1.2 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 19 | 1.2 |
| (1,1382) | 1:95:A:VAL:HG21 | 1:92:A:GLU:H | 2 | 1.2 |
| (1,1382) | 1:95:A:VAL:HG21 | 1:92:A:GLU:H | 9 | 1.2 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD12 | 18 | 1.2 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 2 | 1.2 |
| (1,1929) | 1:58:A:LEU:HD11 | 1:45:A:PHE:HB2 | 20 | 1.19 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 10 | 1.19 |
| (1,1862) | 1:88:A:GLN:HG3 | 1:53:A:ILE:HA | 2 | 1.19 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 17 | 1.19 |
| (1,1696) | 1:83:A:MET:HG2 | 1:93:A:GLU:HA | 3 | 1.19 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 4 | 1.19 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 10 | 1.19 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 15 | 1.19 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 18 | 1.19 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 18 | 1.19 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD21 | 9 | 1.19 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 14 | 1.18 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 18 | 1.18 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 13 | 1.18 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 16 | 1.18 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 14 | 1.18 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 16 | 1.18 |
| (1,372) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HB3 | 20 | 1.18 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 19 | 1.18 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 15 | 1.18 |
| (1,217) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HG21 | 4 | 1.18 |
| (1,204) | 1:35:A:LEU:HD11 | 1:34:A:GLU:HG2 | 17 | 1.18 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 19 | 1.17 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 7 | 1.17 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 19 | 1.17 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 11 | 1.17 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 3 | 1.17 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 13 | 1.17 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 17 | 1.17 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 11 | 1.17 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 5 | 1.16 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 2 | 1.16 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG21 | 20 | 1.16 |
| (1,1382) | 1:95:A:VAL:HG21 | 1:92:A:GLU:H | 1 | 1.16 |
| (1,1341) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG12 | 8 | 1.16 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 11 | 1.16 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 5 | 1.16 |
| (1,372) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HB3 | 10 | 1.16 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 11 | 1.16 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 12 | 1.16 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG23 | 14 | 1.16 |
| (1,216) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HA | 2 | 1.16 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 2 | 1.16 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1930) | 1:58:A:LEU:HD13 | 1:53:A:ILE:HD13 | 2 | 1.15 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 3 | 1.15 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB1 | 10 | 1.15 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 11 | 1.15 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 8 | 1.15 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 17 | 1.15 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 1 | 1.15 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 12 | 1.15 |
| (1,323) | 1:74:A:LEU:HD13 | 1:55:A:LYS:HE2 | 3 | 1.15 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 18 | 1.14 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 12 | 1.14 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 13 | 1.14 |
| (1,1180) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 18 | 1.14 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 4 | 1.14 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 6 | 1.14 |
| (1,456) | 1:81:A:LEU:HD21 | 1:89:A:VAL:HB | 1 | 1.14 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 18 | 1.14 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 16 | 1.14 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 17 | 1.14 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 19 | 1.13 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD1 | 16 | 1.13 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 3 | 1.13 |
| (1,372) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HB3 | 6 | 1.13 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 5 | 1.13 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 12 | 1.12 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 6 | 1.12 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 15 | 1.12 |
| (1,1382) | 1:95:A:VAL:HG23 | 1:92:A:GLU:H | 19 | 1.12 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 19 | 1.12 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 17 | 1.12 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD12 | 19 | 1.12 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 4 | 1.12 |
| (1,1946) | 1:72:A:VAL:HG13 | 1:73:A:GLU:HG3 | 14 | 1.11 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 5 | 1.11 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG12 | 12 | 1.11 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 13 | 1.11 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 4 | 1.11 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 20 | 1.11 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 16 | 1.11 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 7 | 1.11 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 5 | 1.1 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 8 | 1.1 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB1 | 18 | 1.1 |
| (1,1180) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 2 | 1.1 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 16 | 1.1 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 4 | 1.1 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 7 | 1.1 |
| (1,510) | 1:97:A:LEU:HD12 | 1:93:A:GLU:HA | 10 | 1.1 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 13 | 1.1 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 16 | 1.1 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 13 | 1.1 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 9 | 1.1 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 1 | 1.09 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 13 | 1.09 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 6 | 1.09 |
| (1,1608) | 1:39:A:ARG:HB3 | 1:43:A:LYS:HA | 7 | 1.09 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 13 | 1.09 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 4 | 1.09 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 7 | 1.09 |
| (1,358) | 1:65:A:LEU:HD11 | 1:63:A:ARG:H | 6 | 1.09 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 5 | 1.09 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD21 | 6 | 1.08 |
| (1,1870) | 1:62:A:MET:HG2 | 1:58:A:LEU:HB2 | 1 | 1.08 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 14 | 1.08 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 4 | 1.08 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 10 | 1.08 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 7 | 1.08 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 2 | 1.08 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD22 | 18 | 1.08 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 13 | 1.08 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 9 | 1.08 |
| (1,241) | 1:39:A:ARG:HG3 | 1:43:A:LYS:HD2 | 14 | 1.08 |
| (1,1942) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG2 | 18 | 1.07 |
| (1,1927) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HD2 | 20 | 1.07 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 11 | 1.07 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 19 | 1.07 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 6 | 1.07 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 2 | 1.07 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 18 | 1.07 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 19 | 1.07 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 20 | 1.07 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 10 | 1.07 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 13 | 1.07 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 12 | 1.07 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD13 | 3 | 1.07 |
| (1,508) | 1:98:A:LEU:HD22 | 1:91:A:PHE:HE1 | 2 | 1.07 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 12 | 1.07 |
| (1,358) | 1:65:A:LEU:HD11 | 1:63:A:ARG:H | 20 | 1.07 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD12 | 20 | 1.07 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 1 | 1.07 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB2 | 19 | 1.07 |
| (1,1947) | 1:80:A:ARG:H | 1:81:A:LEU:HD13 | 2 | 1.06 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 3 | 1.06 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 12 | 1.06 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 5 | 1.06 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 17 | 1.06 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 6 | 1.06 |
| (1,1042) | 1:53:A:ILE:HD12 | 1:58:A:LEU:HB3 | 5 | 1.06 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 9 | 1.06 |
| (1,401) | 1:72:A:VAL:HG12 | 1:75:A:GLU:HB3 | 20 | 1.06 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 3 | 1.06 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 10 | 1.06 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 9 | 1.06 |
| (1,176) | 1:28:A:VAL:HG11 | 1:30:A:ILE:H | 16 | 1.06 |
| (1,96) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HG3 | 13 | 1.06 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 14 | 1.05 |
| (1,1861) | 1:88:A:GLN:HB2 | 1:53:A:ILE:HA | 9 | 1.05 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 11 | 1.05 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 12 | 1.05 |
| (1,1180) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 8 | 1.05 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 3 | 1.05 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 14 | 1.05 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 1 | 1.05 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 20 | 1.05 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 6 | 1.05 |
| (1,323) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HE2 | 1 | 1.05 |
| (1,321) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HD3 | 14 | 1.05 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 3 | 1.05 |
| (1,1944) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 18 | 1.04 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 3 | 1.04 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 12 | 1.04 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 11 | 1.04 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 11 | 1.04 |
| (1,358) | 1:65:A:LEU:HD11 | 1:63:A:ARG:H | 10 | 1.04 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 1 | 1.04 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 12 | 1.03 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1942) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG2 | 2 | 1.03 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 8 | 1.03 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 9 | 1.03 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG13 | 17 | 1.03 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 20 | 1.03 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB1 | 11 | 1.03 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 12 | 1.03 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 18 | 1.03 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 9 | 1.03 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 17 | 1.03 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 13 | 1.02 |
| (1,1734) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HD1 | 8 | 1.02 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG23 | 14 | 1.02 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG13 | 19 | 1.02 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 13 | 1.02 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 6 | 1.02 |
| (1,394) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG11 | 11 | 1.02 |
| (1,372) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HB3 | 15 | 1.02 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 15 | 1.02 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 3 | 1.02 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG23 | 16 | 1.02 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD1 | 2 | 1.02 |
| (1,176) | 1:28:A:VAL:HG21 | 1:30:A:ILE:H | 7 | 1.02 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 20 | 1.01 |
| (1,1772) | 1:95:A:VAL:HG13 | 1:92:A:GLU:HG3 | 13 | 1.01 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 5 | 1.01 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 7 | 1.01 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB3 | 1 | 1.01 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 4 | 1.01 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 19 | 1.01 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 11 | 1.01 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 19 | 1.01 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 6 | 1.01 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD13 | 2 | 1.01 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 19 | 1.01 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 4 | 1.01 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 20 | 1.01 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD21 | 12 | 1.01 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 13 | 1.01 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD21 | 18 | 1.01 |
| (1,164) | 1:28:A:VAL:HG11 | 1:26:A:ARG:HB2 | 7 | 1.01 |
| (1,137) | 1:22:A:LEU:HD21 | 1:20:A:ASN:HD22 | 9 | 1.01 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD23 | 13 | 1.01 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 15 | 1.0 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 18 | 1.0 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 13 | 1.0 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 9 | 1.0 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 16 | 1.0 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 14 | 1.0 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 19 | 1.0 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 4 | 1.0 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD12 | 7 | 1.0 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD22 | 13 | 1.0 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 11 | 1.0 |
| (1,204) | 1:35:A:LEU:HD12 | 1:34:A:GLU:HG2 | 2 | 1.0 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD13 | 19 | 1.0 |
| (1,96) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HG3 | 11 | 1.0 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 6 | 1.0 |
| (1,1923) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HG21 | 1 | 0.99 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 11 | 0.99 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 9 | 0.99 |
| (1,1708) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HG | 9 | 0.99 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 13 | 0.99 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 2 | 0.99 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 7 | 0.99 |
| (1,383) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HB2 | 20 | 0.99 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 2 | 0.99 |
| (1,350) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HG13 | 8 | 0.99 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 10 | 0.99 |
| (1,321) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HD3 | 12 | 0.99 |
| (1,108) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HB2 | 17 | 0.99 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 6 | 0.98 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 16 | 0.98 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG12 | 2 | 0.98 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 3 | 0.98 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 4 | 0.98 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 17 | 0.98 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 8 | 0.98 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 18 | 0.98 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 4 | 0.98 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 11 | 0.98 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG23 | 18 | 0.98 |
| (1,211) | 1:35:A:LEU:HD12 | 1:39:A:ARG:H | 12 | 0.98 |
| (1,176) | 1:28:A:VAL:HG22 | 1:30:A:ILE:H | 6 | 0.98 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD13 | 7 | 0.98 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG12 | 3 | 0.97 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG12 | 4 | 0.97 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG12 | 5 | 0.97 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB1 | 17 | 0.97 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 15 | 0.97 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 5 | 0.97 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 5 | 0.97 |
| (1,421) | 1:76:A:VAL:HG22 | 1:77:A:ILE:HG12 | 10 | 0.97 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 5 | 0.97 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 16 | 0.97 |
| (1,176) | 1:28:A:VAL:HG23 | 1:30:A:ILE:H | 15 | 0.97 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 8 | 0.96 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 18 | 0.96 |
| (1,1400) | 1:77:A:ILE:HG22 | 1:58:A:LEU:HB2 | 1 | 0.96 |
| (1,1297) | 1:63:A:ARG:HG3 | 1:61:A:ALA:HB2 | 2 | 0.96 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 4 | 0.96 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 4 | 0.96 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 2 | 0.96 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 16 | 0.96 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 6 | 0.96 |
| (1,376) | 1:72:A:VAL:HG21 | 1:70:A:ASN:H | 2 | 0.96 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD23 | 15 | 0.96 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 10 | 0.95 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 17 | 0.95 |
| (1,478) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HG2 | 8 | 0.95 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 2 | 0.95 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 9 | 0.95 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 3 | 0.95 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 12 | 0.95 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 18 | 0.95 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 2 | 0.95 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD22 | 15 | 0.95 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD11 | 16 | 0.95 |
| (1,323) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HE2 | 17 | 0.95 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 5 | 0.95 |
| (1,98) | 1:80:A:ARG:HG3 | 1:76:A:VAL:HG12 | 3 | 0.95 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 10 | 0.95 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD23 | 6 | 0.94 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB2 | 7 | 0.94 |
| (1,1108) | 1:16:A:TYR:HA | 1:15:A:ILE:HD12 | 7 | 0.94 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 5 | 0.94 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 12 | 0.94 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 20 | 0.94 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 2 | 0.94 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 13 | 0.94 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 20 | 0.94 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 14 | 0.94 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD13 | 16 | 0.94 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 17 | 0.94 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 20 | 0.94 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 17 | 0.94 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 8 | 0.94 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD11 | 9 | 0.94 |
| (1,108) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HB3 | 7 | 0.94 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 7 | 0.94 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 3 | 0.94 |
| (1,1942) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG2 | 8 | 0.93 |
| (1,1916) | 1:21:A:LEU:HD21 | 1:19:A:PRO:HB3 | 4 | 0.93 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 8 | 0.93 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG11 | 6 | 0.93 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG11 | 6 | 0.93 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 7 | 0.93 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 10 | 0.93 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 19 | 0.93 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 15 | 0.93 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD23 | 13 | 0.93 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 17 | 0.93 |
| (1,189) | 1:30:A:ILE:HG13 | 1:34:A:GLU:HG2 | 8 | 0.93 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 20 | 0.93 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 12 | 0.92 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 10 | 0.92 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 17 | 0.92 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 6 | 0.92 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 7 | 0.92 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 9 | 0.92 |
| (1,1108) | 1:16:A:TYR:HA | 1:15:A:ILE:HD11 | 17 | 0.92 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 1 | 0.92 |
| (1,1042) | 1:53:A:ILE:HD12 | 1:58:A:LEU:HB3 | 16 | 0.92 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 14 | 0.92 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG22 | 4 | 0.92 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD21 | 3 | 0.92 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 4 | 0.92 |
| (1,477) | 1:86:A:ASP:HB2 | 1:88:A:GLN:HB3 | 9 | 0.92 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD13 | 4 | 0.92 |
| (1,421) | 1:76:A:VAL:HG22 | 1:77:A:ILE:HG12 | 18 | 0.92 |
| (1,390) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD22 | 11 | 0.92 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 1 | 0.92 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 11 | 0.92 |
| (1,346) | 1:74:A:LEU:HD23 | 1:58:A:LEU:H | 20 | 0.92 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD12 | 14 | 0.92 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 15 | 0.92 |
| (1,213) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD1 | 17 | 0.92 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG23 | 5 | 0.92 |
| (1,140) | 1:25:A:GLN:HB3 | 1:21:A:LEU:HD11 | 3 | 0.92 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 16 | 0.91 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD21 | 10 | 0.91 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 16 | 0.91 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG23 | 20 | 0.91 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 16 | 0.91 |
| (1,1180) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 11 | 0.91 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 12 | 0.91 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 5 | 0.91 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD22 | 2 | 0.91 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 12 | 0.91 |
| (1,294) | 1:88:A:GLN:HE21 | 1:52:A:PHE:HD2 | 9 | 0.91 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG22 | 19 | 0.91 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD1 | 6 | 0.91 |
| (1,204) | 1:35:A:LEU:HD12 | 1:34:A:GLU:HG2 | 13 | 0.91 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 5 | 0.9 |
| (1,1929) | 1:58:A:LEU:HD12 | 1:45:A:PHE:HB2 | 11 | 0.9 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 1 | 0.9 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 10 | 0.9 |
| (1,1304) | 1:28:A:VAL:HG13 | 1:27:A:PRO:HA | 14 | 0.9 |
| (1,1301) | 1:65:A:LEU:H | 1:61:A:ALA:HB2 | 16 | 0.9 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 11 | 0.9 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 7 | 0.9 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 12 | 0.9 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD23 | 18 | 0.9 |
| (1,358) | 1:65:A:LEU:HD11 | 1:63:A:ARG:H | 14 | 0.9 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD21 | 14 | 0.9 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG22 | 6 | 0.9 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD21 | 8 | 0.9 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD22 | 12 | 0.89 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB3 | 3 | 0.89 |
| (1,1734) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HD2 | 1 | 0.89 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 19 | 0.89 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 3 | 0.89 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 8 | 0.89 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD22 | 1 | 0.89 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 20 | 0.89 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 2 | 0.89 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 20 | 0.89 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 11 | 0.89 |
| (1,96) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HG3 | 17 | 0.89 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 4 | 0.89 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 2 | 0.88 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 11 | 0.88 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 13 | 0.88 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 19 | 0.88 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 15 | 0.88 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 16 | 0.88 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 12 | 0.88 |
| (1,376) | 1:72:A:VAL:HG21 | 1:70:A:ASN:H | 5 | 0.88 |
| (1,372) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HB3 | 8 | 0.88 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD12 | 11 | 0.88 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD11 | 15 | 0.88 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 13 | 0.88 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD21 | 16 | 0.88 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 5 | 0.88 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 3 | 0.88 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 4 | 0.88 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 20 | 0.88 |
| (1,1772) | 1:95:A:VAL:HG11 | 1:92:A:GLU:HG3 | 5 | 0.87 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD1 | 7 | 0.87 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 20 | 0.87 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 18 | 0.87 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 9 | 0.87 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 10 | 0.87 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 9 | 0.87 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 2 | 0.87 |
| (1,472) | 1:89:A:VAL:HG23 | 1:85:A:GLY:H | 5 | 0.87 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD12 | 15 | 0.87 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 20 | 0.87 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG23 | 13 | 0.87 |
| (1,157) | 1:26:A:ARG:HB3 | 1:25:A:GLN:HG2 | 10 | 0.87 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 17 | 0.87 |
| (1,1946) | 1:72:A:VAL:HG12 | 1:73:A:GLU:HG3 | 4 | 0.86 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 4 | 0.86 |
| (1,1304) | 1:28:A:VAL:HG11 | 1:27:A:PRO:HA | 5 | 0.86 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 7 | 0.86 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 2 | 0.86 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 16 | 0.86 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 4 | 0.86 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 1 | 0.86 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 11 | 0.86 |
| (1,315) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HG2 | 3 | 0.86 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 17 | 0.85 |
| (1,1942) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG2 | 11 | 0.85 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 4 | 0.85 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 10 | 0.85 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 4 | 0.85 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 15 | 0.85 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 5 | 0.85 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 13 | 0.85 |
| (1,1042) | 1:53:A:ILE:HD13 | 1:58:A:LEU:HB3 | 9 | 0.85 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 4 | 0.85 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 6 | 0.85 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 7 | 0.85 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 14 | 0.85 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD23 | 9 | 0.85 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 19 | 0.85 |
| (1,346) | 1:74:A:LEU:HD23 | 1:58:A:LEU:H | 12 | 0.85 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD11 | 20 | 0.85 |
| (1,176) | 1:28:A:VAL:HG23 | 1:30:A:ILE:H | 8 | 0.85 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 16 | 0.85 |
| (1,141) | 1:25:A:GLN:HG2 | 1:21:A:LEU:HD11 | 16 | 0.85 |
| (1,136) | 1:20:A:ASN:HB3 | 1:23:A:SER:HB3 | 6 | 0.85 |
| (1,84) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HG2 | 14 | 0.85 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD11 | 10 | 0.84 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 1 | 0.84 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 11 | 0.84 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 14 | 0.84 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 1 | 0.84 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 10 | 0.84 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 14 | 0.84 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 3 | 0.84 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 15 | 0.84 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 13 | 0.84 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 2 | 0.84 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD12 | 17 | 0.84 |
| (1,376) | 1:72:A:VAL:HG22 | 1:70:A:ASN:H | 8 | 0.84 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 8 | 0.84 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 19 | 0.84 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 15 | 0.84 |
| (1,346) | 1:74:A:LEU:HD21 | 1:58:A:LEU:H | 18 | 0.84 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 11 | 0.84 |
| (1,323) | 1:74:A:LEU:HD12 | 1:55:A:LYS:HE2 | 19 | 0.84 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD12 | 18 | 0.84 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 19 | 0.84 |
| (1,137) | 1:22:A:LEU:HD22 | 1:20:A:ASN:HD22 | 10 | 0.84 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 12 | 0.84 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 15 | 0.84 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 15 | 0.84 |
| (1,1944) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 8 | 0.83 |
| (1,1914) | 1:21:A:LEU:HD21 | 1:18:A:VAL:HB | 13 | 0.83 |
| (1,1872) | 1:62:A:MET:HG2 | 1:59:A:GLY:HA3 | 9 | 0.83 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 17 | 0.83 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 4 | 0.83 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG12 | 15 | 0.83 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 8 | 0.83 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 8 | 0.83 |
| (1,904) | 1:38:A:ILE:HG22 | 1:35:A:LEU:H | 15 | 0.83 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 1 | 0.83 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 17 | 0.83 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 14 | 0.83 |
| (1,346) | 1:74:A:LEU:HD23 | 1:58:A:LEU:H | 4 | 0.83 |
| (1,315) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HG2 | 19 | 0.83 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 12 | 0.83 |
| (1,139) | 1:21:A:LEU:HD22 | 1:21:A:LEU:HA | 15 | 0.83 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG23 | 17 | 0.82 |
| (1,1491) | 1:16:A:TYR:HD1 | 1:15:A:ILE:HD11 | 7 | 0.82 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 5 | 0.82 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 7 | 0.82 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 12 | 0.82 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 2 | 0.82 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 20 | 0.82 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD1 | 6 | 0.82 |
| (1,904) | 1:38:A:ILE:HG22 | 1:35:A:LEU:H | 12 | 0.82 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 2 | 0.82 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 18 | 0.82 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD22 | 14 | 0.82 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 17 | 0.82 |
| (1,470) | 1:97:A:LEU:HD11 | 1:83:A:MET:HG2 | 16 | 0.82 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD11 | 14 | 0.82 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 5 | 0.82 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 1 | 0.82 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD21 | 1 | 0.82 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 14 | 0.82 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD11 | 10 | 0.82 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 10 | 0.82 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 8 | 0.81 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 9 | 0.81 |
| (1,1772) | 1:95:A:VAL:HG11 | 1:92:A:GLU:HG3 | 4 | 0.81 |
| (1,1301) | 1:65:A:LEU:H | 1:61:A:ALA:HB2 | 5 | 0.81 |
| (1,1152) | 1:58:A:LEU:HD12 | 1:62:A:MET:HG3 | 12 | 0.81 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 17 | 0.81 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 8 | 0.81 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 16 | 0.81 |
| (1,660) | 1:53:A:ILE:HD11 | 1:52:A:PHE:H | 16 | 0.81 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 6 | 0.81 |
| (1,523) | 1:97:A:LEU:HD12 | 1:96:A:THR:H | 19 | 0.81 |
| (1,520) | 1:98:A:LEU:HD23 | 1:95:A:VAL:HA | 13 | 0.81 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 8 | 0.81 |
| (1,346) | 1:74:A:LEU:HD23 | 1:58:A:LEU:H | 13 | 0.81 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 5 | 0.81 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 2 | 0.81 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 8 | 0.81 |
| (1,162) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 1 | 0.81 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD12 | 20 | 0.81 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 13 | 0.81 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 2 | 0.8 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD22 | 7 | 0.8 |
| (1,1916) | 1:21:A:LEU:HD22 | 1:19:A:PRO:HB3 | 11 | 0.8 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD2 | 12 | 0.8 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 9 | 0.8 |
| (1,1304) | 1:28:A:VAL:HG11 | 1:27:A:PRO:HA | 11 | 0.8 |
| (1,1175) | 1:30:A:ILE:HD11 | 1:29:A:ASP:H | 8 | 0.8 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 4 | 0.8 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 11 | 0.8 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 14 | 0.8 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 20 | 0.8 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 8 | 0.8 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD2 | 17 | 0.8 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 9 | 0.8 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 2 | 0.8 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 14 | 0.8 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD12 | 14 | 0.8 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 1 | 0.8 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 5 | 0.8 |
| (1,470) | 1:97:A:LEU:HD12 | 1:83:A:MET:HG2 | 1 | 0.8 |
| (1,376) | 1:72:A:VAL:HG22 | 1:70:A:ASN:H | 17 | 0.8 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 9 | 0.8 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD1 | 4 | 0.8 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 17 | 0.8 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 10 | 0.8 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 15 | 0.8 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE3 | 2 | 0.8 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 17 | 0.79 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 15 | 0.79 |
| (1,1182) | 1:58:A:LEU:HD23 | 1:61:A:ALA:HB3 | 7 | 0.79 |
| (1,1152) | 1:58:A:LEU:HD11 | 1:62:A:MET:HG3 | 10 | 0.79 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 8 | 0.79 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 11 | 0.79 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 20 | 0.79 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 17 | 0.79 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 20 | 0.79 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 5 | 0.79 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD22 | 16 | 0.79 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 10 | 0.79 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 12 | 0.79 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 14 | 0.79 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 18 | 0.79 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 19 | 0.79 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 4 | 0.79 |
| (1,400) | 1:72:A:VAL:HG13 | 1:73:A:GLU:HA | 19 | 0.79 |
| (1,376) | 1:72:A:VAL:HG23 | 1:70:A:ASN:H | 4 | 0.79 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 16 | 0.79 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 13 | 0.79 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 11 | 0.79 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 4 | 0.79 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE2 | 11 | 0.79 |
| (1,1731) | 1:35:A:LEU:HD11 | 1:38:A:ILE:HB | 4 | 0.78 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 14 | 0.78 |
| (1,1179) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 20 | 0.78 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 18 | 0.78 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 15 | 0.78 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 9 | 0.78 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 2 | 0.78 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 8 | 0.78 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 15 | 0.78 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 5 | 0.78 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 7 | 0.78 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 11 | 0.78 |
| (1,423) | 1:79:A:GLN:HG3 | 1:76:A:VAL:HG12 | 3 | 0.78 |
| (1,401) | 1:72:A:VAL:HG23 | 1:75:A:GLU:HB2 | 17 | 0.78 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD12 | 5 | 0.78 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 2 | 0.78 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD13 | 1 | 0.77 |
| (1,1922) | 1:98:A:LEU:HD11 | 1:38:A:ILE:HA | 8 | 0.77 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 3 | 0.77 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD22 | 5 | 0.77 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 20 | 0.77 |
| (1,1592) | 1:35:A:LEU:HD22 | 1:95:A:VAL:HG22 | 5 | 0.77 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 2 | 0.77 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 12 | 0.77 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 13 | 0.77 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 17 | 0.77 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 4 | 0.77 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 1 | 0.77 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 19 | 0.77 |
| (1,390) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD22 | 14 | 0.77 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 6 | 0.77 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 7 | 0.77 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 7 | 0.77 |
| (1,216) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HA | 6 | 0.77 |
| (1,139) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 1 | 0.77 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 3 | 0.76 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD22 | 10 | 0.76 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD23 | 13 | 0.76 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 11 | 0.76 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD21 | 1 | 0.76 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD21 | 19 | 0.76 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 2 | 0.76 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 2 | 0.76 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 9 | 0.76 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 8 | 0.76 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG11 | 18 | 0.76 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 9 | 0.76 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 18 | 0.76 |
| (1,1127) | 1:74:A:LEU:HD13 | 1:70:A:ASN:HA | 6 | 0.76 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 12 | 0.76 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 15 | 0.76 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 3 | 0.76 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG23 | 20 | 0.76 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 13 | 0.76 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 6 | 0.76 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 6 | 0.76 |
| (1,346) | 1:74:A:LEU:HD21 | 1:58:A:LEU:H | 14 | 0.76 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 10 | 0.76 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG21 | 17 | 0.76 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG22 | 20 | 0.76 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 3 | 0.76 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 5 | 0.76 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 1 | 0.75 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 17 | 0.75 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 5 | 0.75 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 8 | 0.75 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 18 | 0.75 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD13 | 14 | 0.75 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 6 | 0.75 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG22 | 1 | 0.75 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG23 | 6 | 0.75 |
| (1,1346) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HE2 | 11 | 0.75 |
| (1,1179) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 5 | 0.75 |
| (1,1179) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 16 | 0.75 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 10 | 0.75 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 20 | 0.75 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 5 | 0.75 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 5 | 0.75 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 11 | 0.75 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 13 | 0.75 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 1 | 0.75 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD23 | 7 | 0.75 |
| (1,204) | 1:35:A:LEU:HD22 | 1:34:A:GLU:HG2 | 10 | 0.75 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 16 | 0.75 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 9 | 0.74 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD21 | 12 | 0.74 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 4 | 0.74 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB1 | 3 | 0.74 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 13 | 0.74 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 3 | 0.74 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 13 | 0.74 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 18 | 0.74 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 20 | 0.74 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 7 | 0.74 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 3 | 0.74 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 12 | 0.74 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 11 | 0.74 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 3 | 0.74 |
| (1,423) | 1:79:A:GLN:HG3 | 1:76:A:VAL:HG12 | 7 | 0.74 |
| (1,401) | 1:72:A:VAL:HG21 | 1:75:A:GLU:HB2 | 4 | 0.74 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 19 | 0.74 |
| (1,390) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HD22 | 9 | 0.74 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 3 | 0.74 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 19 | 0.74 |
| (1,213) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 10 | 0.74 |
| (1,204) | 1:35:A:LEU:HD13 | 1:34:A:GLU:HG2 | 4 | 0.74 |
| (1,166) | 1:28:A:VAL:HG11 | 1:26:A:ARG:HD2 | 12 | 0.74 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD13 | 19 | 0.74 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 6 | 0.74 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 9 | 0.74 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 7 | 0.74 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE2 | 18 | 0.74 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD12 | 1 | 0.73 |
| (1,1946) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HG3 | 2 | 0.73 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 3 | 0.73 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 7 | 0.73 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 16 | 0.73 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 17 | 0.73 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD21 | 17 | 0.73 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD22 | 5 | 0.73 |
| (1,1492) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HE1 | 16 | 0.73 |
| (1,1347) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HD2 | 11 | 0.73 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB3 | 16 | 0.73 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 1 | 0.73 |
| (1,904) | 1:38:A:ILE:HG22 | 1:35:A:LEU:H | 4 | 0.73 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 3 | 0.73 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 19 | 0.73 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 12 | 0.73 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 8 | 0.73 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 4 | 0.73 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 16 | 0.73 |
| (1,390) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD22 | 1 | 0.73 |
| (1,390) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HD22 | 13 | 0.73 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 9 | 0.73 |
| (1,346) | 1:74:A:LEU:HD21 | 1:58:A:LEU:H | 11 | 0.73 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 2 | 0.73 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 10 | 0.73 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 9 | 0.73 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 14 | 0.73 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD23 | 5 | 0.73 |
| (1,139) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 18 | 0.73 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 5 | 0.73 |
| (1,1858) | 1:28:A:VAL:HG11 | 1:28:A:VAL:H | 1 | 0.72 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 16 | 0.72 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 9 | 0.72 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 8 | 0.72 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 16 | 0.72 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 7 | 0.72 |
| (1,1491) | 1:16:A:TYR:HD1 | 1:15:A:ILE:HD13 | 17 | 0.72 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 19 | 0.72 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 18 | 0.72 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 16 | 0.72 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 16 | 0.72 |
| (1,844) | 1:78:A:ILE:HG23 | 1:85:A:GLY:H | 20 | 0.72 |
| (1,660) | 1:53:A:ILE:HD11 | 1:52:A:PHE:H | 9 | 0.72 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 7 | 0.72 |
| (1,510) | 1:97:A:LEU:HD11 | 1:93:A:GLU:HA | 1 | 0.72 |
| (1,423) | 1:79:A:GLN:HG3 | 1:76:A:VAL:HG13 | 18 | 0.72 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 17 | 0.72 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD13 | 2 | 0.72 |
| (1,1858) | 1:28:A:VAL:HG12 | 1:28:A:VAL:H | 11 | 0.71 |
| (1,1731) | 1:35:A:LEU:HD13 | 1:38:A:ILE:HB | 2 | 0.71 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 7 | 0.71 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD22 | 15 | 0.71 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 13 | 0.71 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 4 | 0.71 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 10 | 0.71 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG22 | 2 | 0.71 |
| (1,1179) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 15 | 0.71 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 13 | 0.71 |
| (1,1108) | 1:16:A:TYR:HA | 1:15:A:ILE:HD12 | 20 | 0.71 |
| (1,904) | 1:38:A:ILE:HG22 | 1:35:A:LEU:H | 10 | 0.71 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 10 | 0.71 |
| (1,524) | 1:96:A:THR:H | 1:98:A:LEU:HD23 | 1 | 0.71 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 2 | 0.71 |
| (1,472) | 1:89:A:VAL:HG21 | 1:85:A:GLY:H | 4 | 0.71 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD12 | 5 | 0.71 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 12 | 0.71 |
| (1,317) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HG3 | 19 | 0.71 |
| (1,299) | 1:53:A:ILE:HD12 | 1:89:A:VAL:HG13 | 14 | 0.71 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD12 | 6 | 0.71 |
| (1,217) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG22 | 5 | 0.71 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG22 | 4 | 0.71 |
| (1,84) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HG2 | 10 | 0.71 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 19 | 0.71 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD12 | 14 | 0.7 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 17 | 0.7 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 6 | 0.7 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 19 | 0.7 |
| (1,1600) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 15 | 0.7 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 9 | 0.7 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD23 | 20 | 0.7 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 4 | 0.7 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 2 | 0.7 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 15 | 0.7 |
| (1,1179) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 11 | 0.7 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 18 | 0.7 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 17 | 0.7 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD1 | 11 | 0.7 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 7 | 0.7 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 2 | 0.7 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 20 | 0.7 |
| (1,337) | 1:56:A:GLN:HE21 | 1:75:A:GLU:HG2 | 15 | 0.7 |
| (1,249) | 1:41:A:ALA:HB2 | 1:98:A:LEU:HD22 | 11 | 0.7 |
| (1,223) | 1:38:A:ILE:HB | 1:98:A:LEU:HD12 | 1 | 0.7 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 9 | 0.7 |
| (1,96) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HG3 | 5 | 0.7 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 17 | 0.7 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 19 | 0.7 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG21 | 13 | 0.7 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 11 | 0.7 |
| (1,35) | 1:55:A:LYS:HE2 | 1:78:A:ILE:HD12 | 14 | 0.7 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 3 | 0.69 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 16 | 0.69 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD22 | 3 | 0.69 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD22 | 11 | 0.69 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 5 | 0.69 |
| (1,1334) | 1:96:A:THR:HA | 1:95:A:VAL:HG12 | 7 | 0.69 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 11 | 0.69 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 10 | 0.69 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 6 | 0.69 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 14 | 0.69 |
| (1,472) | 1:89:A:VAL:HG23 | 1:85:A:GLY:H | 13 | 0.69 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 18 | 0.69 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 6 | 0.69 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 18 | 0.69 |
| (1,246) | 1:39:A:ARG:HG2 | 1:95:A:VAL:HG12 | 14 | 0.69 |
| (1,213) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 20 | 0.69 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD12 | 11 | 0.69 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 15 | 0.69 |
| (1,96) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HG3 | 2 | 0.69 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 7 | 0.69 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 16 | 0.69 |
| (1,1938) | 1:58:A:LEU:HD22 | 1:59:A:GLY:HA3 | 9 | 0.68 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB3 | 11 | 0.68 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 2 | 0.68 |
| (1,1592) | 1:35:A:LEU:HD23 | 1:95:A:VAL:HG22 | 20 | 0.68 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 20 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD13 | 4 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 16 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 17 | 0.68 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 19 | 0.68 |
| (1,1490) | 1:15:A:ILE:HD12 | 1:16:A:TYR:H | 20 | 0.68 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG22 | 2 | 0.68 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 15 | 0.68 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD12 | 13 | 0.68 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 18 | 0.68 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 11 | 0.68 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 19 | 0.68 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 10 | 0.68 |
| (1,539) | 1:15:A:ILE:HD13 | 1:14:A:GLY:H | 12 | 0.68 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 10 | 0.68 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 13 | 0.68 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 15 | 0.68 |
| (1,390) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD22 | 12 | 0.68 |
| (1,350) | 1:58:A:LEU:HD11 | 1:78:A:ILE:HG13 | 2 | 0.68 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,137) | 1:22:A:LEU:HD22 | 1:20:A:ASN:HD22 | 6 | 0.68 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 4 | 0.68 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 1 | 0.68 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 5 | 0.67 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 7 | 0.67 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 7 | 0.67 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 9 | 0.67 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 20 | 0.67 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 11 | 0.67 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 20 | 0.67 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 6 | 0.67 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 2 | 0.67 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 8 | 0.67 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 13 | 0.67 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 7 | 0.67 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD21 | 7 | 0.67 |
| (1,442) | 1:80:A:ARG:HG3 | 1:79:A:GLN:HG3 | 3 | 0.67 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 12 | 0.67 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 15 | 0.67 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 15 | 0.67 |
| (1,214) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HE2 | 7 | 0.67 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG21 | 17 | 0.67 |
| (1,166) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HD2 | 7 | 0.67 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG2 | 6 | 0.67 |
| (1,44) | 1:72:A:VAL:HG23 | 1:71:A:GLU:HG3 | 6 | 0.67 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD12 | 18 | 0.66 |
| (1,1917) | 1:21:A:LEU:H | 1:21:A:LEU:HD22 | 2 | 0.66 |
| (1,1858) | 1:28:A:VAL:HG11 | 1:28:A:VAL:H | 14 | 0.66 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 8 | 0.66 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 11 | 0.66 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 8 | 0.66 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 15 | 0.66 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG11 | 5 | 0.66 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 10 | 0.66 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 8 | 0.66 |
| (1,1133) | 1:59:A:GLY:HA3 | 1:58:A:LEU:HB2 | 18 | 0.66 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 4 | 0.66 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG12 | 12 | 0.66 |
| (1,474) | 1:89:A:VAL:HG21 | 1:86:A:ASP:H | 4 | 0.66 |
| (1,472) | 1:89:A:VAL:HG22 | 1:85:A:GLY:H | 9 | 0.66 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 17 | 0.66 |
| (1,350) | 1:58:A:LEU:HD11 | 1:78:A:ILE:HG13 | 17 | 0.66 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,214) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HE2 | 15 | 0.66 |
| (1,157) | 1:26:A:ARG:HB3 | 1:25:A:GLN:HG2 | 19 | 0.66 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD23 | 2 | 0.66 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 14 | 0.66 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD13 | 5 | 0.65 |
| (1,1940) | 1:58:A:LEU:HD21 | 1:62:A:MET:HB2 | 2 | 0.65 |
| (1,1940) | 1:58:A:LEU:HD22 | 1:62:A:MET:HB2 | 18 | 0.65 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG23 | 13 | 0.65 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD11 | 7 | 0.65 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 1 | 0.65 |
| (1,1600) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 7 | 0.65 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD21 | 17 | 0.65 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 3 | 0.65 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD11 | 6 | 0.65 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 12 | 0.65 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 9 | 0.65 |
| (1,1400) | 1:77:A:ILE:HG21 | 1:58:A:LEU:HB2 | 17 | 0.65 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 19 | 0.65 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG23 | 17 | 0.65 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 3 | 0.65 |
| (1,1127) | 1:74:A:LEU:HD13 | 1:70:A:ASN:HA | 7 | 0.65 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 6 | 0.65 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 13 | 0.65 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 11 | 0.65 |
| (1,520) | 1:98:A:LEU:HD23 | 1:95:A:VAL:HA | 1 | 0.65 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 18 | 0.65 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 13 | 0.65 |
| (1,456) | 1:81:A:LEU:HD22 | 1:89:A:VAL:HB | 2 | 0.65 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 8 | 0.65 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 3 | 0.65 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG23 | 3 | 0.65 |
| (1,159) | 1:26:A:ARG:HD3 | 1:26:A:ARG:H | 1 | 0.65 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD23 | 4 | 0.65 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 18 | 0.65 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD13 | 17 | 0.64 |
| (1,1914) | 1:21:A:LEU:HD22 | 1:18:A:VAL:HB | 9 | 0.64 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG23 | 4 | 0.64 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG21 | 12 | 0.64 |
| (1,1775) | 1:91:A:PHE:H | 1:92:A:GLU:HG2 | 5 | 0.64 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 19 | 0.64 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 1 | 0.64 |
| (1,1597) | 1:38:A:ILE:HB | 1:35:A:LEU:HD23 | 13 | 0.64 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG21 | 14 | 0.64 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG21 | 17 | 0.64 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG22 | 13 | 0.64 |
| (1,750) | 1:62:A:MET:H | 1:59:A:GLY:HA3 | 9 | 0.64 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 3 | 0.64 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 8 | 0.64 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 11 | 0.64 |
| (1,474) | 1:89:A:VAL:HG23 | 1:86:A:ASP:H | 13 | 0.64 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 6 | 0.64 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 2 | 0.64 |
| (1,174) | 1:28:A:VAL:HG22 | 1:29:A:ASP:HA | 6 | 0.64 |
| (1,92) | 1:83:A:MET:HG2 | 1:93:A:GLU:HG2 | 13 | 0.64 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 16 | 0.64 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 8 | 0.63 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 12 | 0.63 |
| (1,1592) | 1:35:A:LEU:HD22 | 1:95:A:VAL:HG21 | 3 | 0.63 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 1 | 0.63 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 8 | 0.63 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 11 | 0.63 |
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 14 | 0.63 |
| (1,1151) | 1:62:A:MET:HG3 | 1:61:A:ALA:HB2 | 15 | 0.63 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 16 | 0.63 |
| (1,1100) | 1:51:A:GLY:HA2 | 1:52:A:PHE:HD1 | 9 | 0.63 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 7 | 0.63 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 14 | 0.63 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 9 | 0.63 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 10 | 0.63 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 5 | 0.63 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 5 | 0.63 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 19 | 0.63 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG12 | 7 | 0.63 |
| (1,1940) | 1:58:A:LEU:HD23 | 1:62:A:MET:HB2 | 8 | 0.62 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 5 | 0.62 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 14 | 0.62 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 6 | 0.62 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 16 | 0.62 |
| (1,1481) | 1:38:A:ILE:HD12 | 1:35:A:LEU:H | 17 | 0.62 |
| (1,1455) | 1:60:A:THR:HG21 | 1:45:A:PHE:HB3 | 14 | 0.62 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 12 | 0.62 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 16 | 0.62 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 18 | 0.62 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 14 | 0.62 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1127) | 1:74:A:LEU:HD13 | 1:70:A:ASN:HA | 2 | 0.62 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 7 | 0.62 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 11 | 0.62 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 6 | 0.62 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 20 | 0.62 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 13 | 0.62 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 16 | 0.62 |
| (1,164) | 1:26:A:ARG:HB3 | 1:28:A:VAL:HG21 | 1 | 0.62 |
| (1,147) | 1:22:A:LEU:HD11 | 1:23:A:SER:HB3 | 3 | 0.62 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 18 | 0.61 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 18 | 0.61 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG21 | 19 | 0.61 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 16 | 0.61 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD1 | 13 | 0.61 |
| (1,1733) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HE1 | 8 | 0.61 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 18 | 0.61 |
| (1,1592) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HG21 | 17 | 0.61 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD1 | 8 | 0.61 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 16 | 0.61 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 3 | 0.61 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG22 | 9 | 0.61 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 14 | 0.61 |
| (1,1301) | 1:65:A:LEU:H | 1:61:A:ALA:HB2 | 7 | 0.61 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 3 | 0.61 |
| (1,1034) | 1:53:A:ILE:HD11 | 1:39:A:ARG:HA | 15 | 0.61 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 18 | 0.61 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 11 | 0.61 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 11 | 0.61 |
| (1,859) | 1:87:A:GLY:H | 1:88:A:GLN:HG2 | 16 | 0.61 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 17 | 0.61 |
| (1,523) | 1:97:A:LEU:HD11 | 1:96:A:THR:H | 8 | 0.61 |
| (1,510) | 1:97:A:LEU:HD12 | 1:93:A:GLU:HA | 9 | 0.61 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD11 | 13 | 0.61 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 14 | 0.61 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD22 | 1 | 0.61 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE21 | 14 | 0.61 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 13 | 0.61 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 15 | 0.61 |
| (1,205) | 1:35:A:LEU:HD11 | 1:35:A:LEU:H | 17 | 0.61 |
| (1,164) | 1:28:A:VAL:HG11 | 1:26:A:ARG:HB2 | 20 | 0.61 |
| (1,147) | 1:22:A:LEU:HD12 | 1:23:A:SER:HB3 | 2 | 0.61 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 2 | 0.6 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG21 | 10 | 0.6 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 16 | 0.6 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 10 | 0.6 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 4 | 0.6 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 12 | 0.6 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 11 | 0.6 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD13 | 14 | 0.6 |
| (1,1034) | 1:53:A:ILE:HD11 | 1:39:A:ARG:HA | 8 | 0.6 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 20 | 0.6 |
| (1,660) | 1:53:A:ILE:HD13 | 1:52:A:PHE:H | 15 | 0.6 |
| (1,510) | 1:97:A:LEU:HD12 | 1:93:A:GLU:HA | 8 | 0.6 |
| (1,474) | 1:89:A:VAL:HG23 | 1:86:A:ASP:H | 16 | 0.6 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 9 | 0.6 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG13 | 16 | 0.6 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 7 | 0.6 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 16 | 0.6 |
| (1,211) | 1:35:A:LEU:HD12 | 1:39:A:ARG:H | 9 | 0.6 |
| (1,204) | 1:34:A:GLU:HG3 | 1:35:A:LEU:HD13 | 11 | 0.6 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 5 | 0.6 |
| (1,174) | 1:28:A:VAL:HG21 | 1:29:A:ASP:HA | 12 | 0.6 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 12 | 0.6 |
| (1,1940) | 1:58:A:LEU:HD22 | 1:62:A:MET:HB2 | 17 | 0.59 |
| (1,1733) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HE2 | 12 | 0.59 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 9 | 0.59 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 2 | 0.59 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 13 | 0.59 |
| (1,1180) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG3 | 3 | 0.59 |
| (1,1034) | 1:53:A:ILE:HD11 | 1:39:A:ARG:HA | 5 | 0.59 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 20 | 0.59 |
| (1,904) | 1:38:A:ILE:HG21 | 1:35:A:LEU:H | 5 | 0.59 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 7 | 0.59 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 12 | 0.59 |
| (1,844) | 1:78:A:ILE:HG23 | 1:85:A:GLY:H | 18 | 0.59 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 10 | 0.59 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 10 | 0.59 |
| (1,685) | 1:53:A:ILE:HD12 | 1:54:A:SER:H | 11 | 0.59 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 18 | 0.59 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 18 | 0.59 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 10 | 0.59 |
| (1,386) | 1:70:A:ASN:HB2 | 1:73:A:GLU:HB3 | 2 | 0.59 |
| (1,350) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HG13 | 18 | 0.59 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 6 | 0.59 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 16 | 0.59 |
| (1,317) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HG3 | 1 | 0.59 |
| (1,242) | 1:39:A:ARG:HG2 | 1:43:A:LYS:HE3 | 7 | 0.59 |
| (1,237) | 1:39:A:ARG:HA | 1:43:A:LYS:HG3 | 7 | 0.59 |
| (1,193) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HB2 | 4 | 0.59 |
| (1,166) | 1:28:A:VAL:HG21 | 1:26:A:ARG:HD3 | 1 | 0.59 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 18 | 0.59 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 8 | 0.59 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 7 | 0.58 |
| (1,1858) | 1:28:A:VAL:HG11 | 1:28:A:VAL:H | 13 | 0.58 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 8 | 0.58 |
| (1,1759) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 17 | 0.58 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG21 | 7 | 0.58 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 17 | 0.58 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 7 | 0.58 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 6 | 0.58 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 5 | 0.58 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 12 | 0.58 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 16 | 0.58 |
| (1,1304) | 1:28:A:VAL:HG11 | 1:27:A:PRO:HA | 13 | 0.58 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 2 | 0.58 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 3 | 0.58 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 9 | 0.58 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 10 | 0.58 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 13 | 0.58 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 13 | 0.58 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 4 | 0.58 |
| (1,508) | 1:98:A:LEU:HD12 | 1:91:A:PHE:HE1 | 17 | 0.58 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 6 | 0.58 |
| (1,205) | 1:35:A:LEU:HD21 | 1:35:A:LEU:H | 2 | 0.58 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 14 | 0.58 |
| (1,176) | 1:28:A:VAL:HG21 | 1:30:A:ILE:H | 2 | 0.58 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD11 | 9 | 0.58 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 6 | 0.58 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD11 | 8 | 0.57 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD23 | 19 | 0.57 |
| (1,1914) | 1:21:A:LEU:HD23 | 1:18:A:VAL:HB | 12 | 0.57 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB1 | 15 | 0.57 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 6 | 0.57 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD11 | 4 | 0.57 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 5 | 0.57 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 20 | 0.57 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 3 | 0.57 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 11 | 0.57 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD1 | 3 | 0.57 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 15 | 0.57 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 5 | 0.57 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 8 | 0.57 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 5 | 0.57 |
| (1,1380) | 1:94:A:PHE:H | 1:95:A:VAL:HG21 | 11 | 0.57 |
| (1,1335) | 1:92:A:GLU:HA | 1:95:A:VAL:HG13 | 7 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD13 | 4 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 17 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 19 | 0.57 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 20 | 0.57 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG21 | 4 | 0.57 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 13 | 0.57 |
| (1,1127) | 1:74:A:LEU:HD12 | 1:70:A:ASN:HA | 4 | 0.57 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 2 | 0.57 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 11 | 0.57 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 2 | 0.57 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG22 | 2 | 0.57 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 1 | 0.57 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 12 | 0.57 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 13 | 0.57 |
| (1,472) | 1:89:A:VAL:HG23 | 1:85:A:GLY:H | 16 | 0.57 |
| (1,401) | 1:72:A:VAL:HG11 | 1:75:A:GLU:HB3 | 7 | 0.57 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 8 | 0.57 |
| (1,386) | 1:70:A:ASN:HB2 | 1:73:A:GLU:HB3 | 5 | 0.57 |
| (1,376) | 1:72:A:VAL:HG23 | 1:70:A:ASN:H | 14 | 0.57 |
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 8 | 0.57 |
| (1,225) | 1:39:A:ARG:HD2 | 1:38:A:ILE:HG22 | 17 | 0.57 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 20 | 0.57 |
| (1,176) | 1:28:A:VAL:HG21 | 1:30:A:ILE:H | 19 | 0.57 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD11 | 20 | 0.57 |
| (1,84) | 1:26:A:ARG:HG3 | 1:27:A:PRO:HD3 | 20 | 0.57 |
| (1,1923) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HG22 | 12 | 0.56 |
| (1,1858) | 1:28:A:VAL:HG13 | 1:28:A:VAL:H | 5 | 0.56 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 6 | 0.56 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG23 | 20 | 0.56 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 5 | 0.56 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 10 | 0.56 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 17 | 0.56 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 18 | 0.56 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 8 | 0.56 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 12 | 0.56 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 5 | 0.56 |
| (1,1310) | 1:74:A:LEU:HB2 | 1:78:A:ILE:HD11 | 18 | 0.56 |
| (1,1182) | 1:58:A:LEU:HD22 | 1:61:A:ALA:HB2 | 19 | 0.56 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 16 | 0.56 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 12 | 0.56 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 4 | 0.56 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 3 | 0.56 |
| (1,479) | 1:89:A:VAL:HG21 | 1:88:A:GLN:H | 9 | 0.56 |
| (1,434) | 1:79:A:GLN:HG3 | 1:78:A:ILE:HG21 | 6 | 0.56 |
| (1,390) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD22 | 15 | 0.56 |
| (1,386) | 1:70:A:ASN:HB3 | 1:73:A:GLU:HB3 | 4 | 0.56 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 10 | 0.56 |
| (1,350) | 1:58:A:LEU:HD11 | 1:78:A:ILE:HG13 | 1 | 0.56 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD11 | 8 | 0.56 |
| (1,217) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG21 | 3 | 0.56 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 1 | 0.56 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 3 | 0.56 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 9 | 0.56 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB2 | 12 | 0.56 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG12 | 19 | 0.56 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 8 | 0.56 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE3 | 8 | 0.56 |
| (1,1922) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HA | 9 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG21 | 3 | 0.55 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG23 | 8 | 0.55 |
| (1,1789) | 1:89:A:VAL:HG23 | 1:53:A:ILE:HD11 | 6 | 0.55 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 19 | 0.55 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 19 | 0.55 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 11 | 0.55 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 13 | 0.55 |
| (1,1492) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HE1 | 7 | 0.55 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 15 | 0.55 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 7 | 0.55 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 6 | 0.55 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 17 | 0.55 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG21 | 4 | 0.55 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG21 | 15 | 0.55 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 5 | 0.55 |
| (1,660) | 1:53:A:ILE:HD12 | 1:52:A:PHE:H | 10 | 0.55 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 16 | 0.55 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,472) | 1:89:A:VAL:HG23 | 1:85:A:GLY:H | 17 | 0.55 |
| (1,390) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD22 | 7 | 0.55 |
| (1,386) | 1:70:A:ASN:HB2 | 1:73:A:GLU:HB3 | 8 | 0.55 |
| (1,342) | 1:57:A:GLU:HB2 | 1:58:A:LEU:HD13 | 18 | 0.55 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 11 | 0.55 |
| (1,205) | 1:35:A:LEU:HD11 | 1:35:A:LEU:H | 1 | 0.55 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 4 | 0.55 |
| (1,205) | 1:35:A:LEU:HD23 | 1:35:A:LEU:H | 14 | 0.55 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD13 | 2 | 0.55 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD21 | 19 | 0.55 |
| (1,1888) | 1:42:A:PHE:HD1 | 1:61:A:ALA:HB1 | 8 | 0.54 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 2 | 0.54 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD11 | 14 | 0.54 |
| (1,1705) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 17 | 0.54 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 1 | 0.54 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 1 | 0.54 |
| (1,1593) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HD21 | 12 | 0.54 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG23 | 20 | 0.54 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 1 | 0.54 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG23 | 15 | 0.54 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 1 | 0.54 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 9 | 0.54 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 17 | 0.54 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 14 | 0.54 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 19 | 0.54 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 5 | 0.54 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 11 | 0.54 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG23 | 11 | 0.54 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD22 | 9 | 0.54 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG12 | 15 | 0.54 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 16 | 0.54 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD11 | 18 | 0.54 |
| (1,390) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD22 | 10 | 0.54 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 19 | 0.54 |
| (1,350) | 1:58:A:LEU:HD11 | 1:78:A:ILE:HG13 | 3 | 0.54 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 2 | 0.54 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 14 | 0.54 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 10 | 0.54 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 18 | 0.54 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 5 | 0.54 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 14 | 0.54 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD13 | 15 | 0.53 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1940) | 1:58:A:LEU:HD22 | 1:62:A:MET:HB2 | 11 | 0.53 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 9 | 0.53 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG21 | 9 | 0.53 |
| (1,1790) | 1:89:A:VAL:HG22 | 1:81:A:LEU:HA | 10 | 0.53 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 12 | 0.53 |
| (1,1592) | 1:35:A:LEU:HD23 | 1:95:A:VAL:HG23 | 13 | 0.53 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 1 | 0.53 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 19 | 0.53 |
| (1,1486) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HD1 | 19 | 0.53 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 13 | 0.53 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 6 | 0.53 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 13 | 0.53 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 3 | 0.53 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 18 | 0.53 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 4 | 0.53 |
| (1,523) | 1:97:A:LEU:HD13 | 1:96:A:THR:H | 15 | 0.53 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 14 | 0.53 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD13 | 8 | 0.53 |
| (1,401) | 1:72:A:VAL:HG21 | 1:75:A:GLU:HB2 | 11 | 0.53 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 12 | 0.53 |
| (1,336) | 1:74:A:LEU:HD13 | 1:56:A:GLN:HE22 | 3 | 0.53 |
| (1,317) | 1:74:A:LEU:HD12 | 1:55:A:LYS:HG3 | 3 | 0.53 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG11 | 6 | 0.53 |
| (1,256) | 1:53:A:ILE:HD11 | 1:43:A:LYS:HG3 | 5 | 0.53 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 7 | 0.53 |
| (1,1929) | 1:58:A:LEU:HD11 | 1:45:A:PHE:HB2 | 8 | 0.52 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG22 | 2 | 0.52 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG21 | 16 | 0.52 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 13 | 0.52 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 9 | 0.52 |
| (1,1546) | 1:76:A:VAL:HA | 1:77:A:ILE:HD12 | 7 | 0.52 |
| (1,1346) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HE2 | 8 | 0.52 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 18 | 0.52 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 8 | 0.52 |
| (1,1152) | 1:58:A:LEU:HD13 | 1:62:A:MET:HG3 | 6 | 0.52 |
| (1,1034) | 1:53:A:ILE:HD11 | 1:39:A:ARG:HA | 16 | 0.52 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD22 | 1 | 0.52 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 13 | 0.52 |
| (1,418) | 1:79:A:GLN:HE22 | 1:76:A:VAL:HB | 18 | 0.52 |
| (1,332) | 1:74:A:LEU:HD23 | 1:56:A:GLN:HB3 | 20 | 0.52 |
| (1,327) | 1:74:A:LEU:HD11 | 1:56:A:GLN:H | 6 | 0.52 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 7 | 0.52 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,194) | 1:35:A:LEU:HD22 | 1:32:A:GLU:HG3 | 2 | 0.52 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 2 | 0.52 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD22 | 18 | 0.52 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 20 | 0.52 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 12 | 0.51 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 4 | 0.51 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 13 | 0.51 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 17 | 0.51 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 1 | 0.51 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 17 | 0.51 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 3 | 0.51 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 17 | 0.51 |
| (1,1600) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 1 | 0.51 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 4 | 0.51 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 16 | 0.51 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD13 | 5 | 0.51 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG22 | 11 | 0.51 |
| (1,1182) | 1:58:A:LEU:HD23 | 1:61:A:ALA:HB3 | 12 | 0.51 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 19 | 0.51 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 4 | 0.51 |
| (1,1068) | 1:21:A:LEU:HD12 | 1:21:A:LEU:HA | 3 | 0.51 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 2 | 0.51 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 2 | 0.51 |
| (1,904) | 1:38:A:ILE:HG23 | 1:35:A:LEU:H | 20 | 0.51 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD12 | 12 | 0.51 |
| (1,844) | 1:78:A:ILE:HG21 | 1:85:A:GLY:H | 11 | 0.51 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 16 | 0.51 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 20 | 0.51 |
| (1,660) | 1:53:A:ILE:HD11 | 1:52:A:PHE:H | 8 | 0.51 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 12 | 0.51 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 18 | 0.51 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 15 | 0.51 |
| (1,474) | 1:89:A:VAL:HG22 | 1:86:A:ASP:H | 9 | 0.51 |
| (1,390) | 1:72:A:VAL:HG21 | 1:70:A:ASN:HD22 | 19 | 0.51 |
| (1,389) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD21 | 6 | 0.51 |
| (1,352) | 1:74:A:LEU:HD22 | 1:59:A:GLY:HA2 | 12 | 0.51 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD12 | 20 | 0.51 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 8 | 0.51 |
| (1,217) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG21 | 12 | 0.51 |
| (1,205) | 1:35:A:LEU:HD22 | 1:35:A:LEU:H | 10 | 0.51 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD21 | 5 | 0.51 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG21 | 15 | 0.51 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,178) | 1:30:A:ILE:HG13 | 1:29:A:ASP:HA | 5 | 0.51 |
| (1,178) | 1:30:A:ILE:HG13 | 1:29:A:ASP:HA | 11 | 0.51 |
| (1,176) | 1:28:A:VAL:HG22 | 1:30:A:ILE:H | 18 | 0.51 |
| (1,141) | 1:25:A:GLN:HG3 | 1:21:A:LEU:HD12 | 4 | 0.51 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 3 | 0.51 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 9 | 0.51 |
| (1,1942) | 1:58:A:LEU:HD22 | 1:62:A:MET:HG2 | 3 | 0.5 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 10 | 0.5 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 13 | 0.5 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 11 | 0.5 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 1 | 0.5 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 12 | 0.5 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 19 | 0.5 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 20 | 0.5 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 8 | 0.5 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG22 | 17 | 0.5 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 4 | 0.5 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD12 | 6 | 0.5 |
| (1,1344) | 1:95:A:VAL:HG11 | 1:92:A:GLU:H | 7 | 0.5 |
| (1,1187) | 1:27:A:PRO:HG2 | 1:28:A:VAL:H | 7 | 0.5 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 15 | 0.5 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG22 | 9 | 0.5 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 3 | 0.5 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 6 | 0.5 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 10 | 0.5 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 19 | 0.5 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 5 | 0.5 |
| (1,510) | 1:97:A:LEU:HD11 | 1:93:A:GLU:HA | 5 | 0.5 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 1 | 0.5 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD13 | 9 | 0.5 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 14 | 0.5 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 18 | 0.5 |
| (1,148) | 1:24:A:GLU:H | 1:22:A:LEU:HD23 | 4 | 0.5 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD11 | 4 | 0.49 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 17 | 0.49 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 4 | 0.49 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 5 | 0.49 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 5 | 0.49 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG22 | 15 | 0.49 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 20 | 0.49 |
| (1,1705) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 1 | 0.49 |
| (1,1705) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 19 | 0.49 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 2 | 0.49 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 6 | 0.49 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 9 | 0.49 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 11 | 0.49 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 14 | 0.49 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 15 | 0.49 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 4 | 0.49 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 19 | 0.49 |
| (1,1593) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HD22 | 3 | 0.49 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 12 | 0.49 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG22 | 20 | 0.49 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG21 | 20 | 0.49 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 8 | 0.49 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 1 | 0.49 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 11 | 0.49 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG22 | 20 | 0.49 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 6 | 0.49 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 6 | 0.49 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 3 | 0.49 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 7 | 0.49 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 20 | 0.49 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG12 | 9 | 0.49 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD11 | 4 | 0.49 |
| (1,400) | 1:72:A:VAL:HG11 | 1:73:A:GLU:HA | 7 | 0.49 |
| (1,352) | 1:74:A:LEU:HD21 | 1:59:A:GLY:HA2 | 9 | 0.49 |
| (1,346) | 1:74:A:LEU:HD22 | 1:58:A:LEU:H | 8 | 0.49 |
| (1,327) | 1:74:A:LEU:HD22 | 1:56:A:GLN:H | 15 | 0.49 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD13 | 9 | 0.49 |
| (1,205) | 1:35:A:LEU:HD23 | 1:35:A:LEU:H | 6 | 0.49 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 15 | 0.49 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 6 | 0.49 |
| (1,142) | 1:25:A:GLN:HE22 | 1:21:A:LEU:HD11 | 3 | 0.49 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD12 | 17 | 0.49 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 2 | 0.49 |
| (1,1925) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HB2 | 13 | 0.48 |
| (1,1907) | 1:95:A:VAL:HG12 | 1:91:A:PHE:HZ | 11 | 0.48 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 1 | 0.48 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 4 | 0.48 |
| (1,1733) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HE2 | 1 | 0.48 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 1 | 0.48 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 10 | 0.48 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 18 | 0.48 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 2 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 3 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 5 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 6 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 7 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 13 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 16 | 0.48 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 20 | 0.48 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 15 | 0.48 |
| (1,1341) | 1:35:A:LEU:HD12 | 1:95:A:VAL:HG13 | 1 | 0.48 |
| (1,1179) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 3 | 0.48 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 6 | 0.48 |
| (1,1032) | 1:53:A:ILE:HD11 | 1:46:A:ASP:HA | 8 | 0.48 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG23 | 18 | 0.48 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 15 | 0.48 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 9 | 0.48 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 2 | 0.48 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 18 | 0.48 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 6 | 0.48 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 12 | 0.48 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG13 | 2 | 0.48 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 17 | 0.48 |
| (1,376) | 1:72:A:VAL:HG23 | 1:70:A:ASN:H | 1 | 0.48 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 2 | 0.48 |
| (1,355) | 1:63:A:ARG:HD3 | 1:60:A:THR:HG23 | 19 | 0.48 |
| (1,349) | 1:58:A:LEU:HD13 | 1:61:A:ALA:HB3 | 13 | 0.48 |
| (1,282) | 1:57:A:GLU:HB3 | 1:47:A:ARG:HD3 | 3 | 0.48 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 18 | 0.48 |
| (1,202) | 1:35:A:LEU:HA | 1:34:A:GLU:HG2 | 17 | 0.48 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 20 | 0.48 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 10 | 0.48 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 4 | 0.48 |
| (1,164) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HB2 | 3 | 0.48 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD12 | 8 | 0.48 |
| (1,133) | 1:20:A:ASN:HB2 | 1:22:A:LEU:HG | 7 | 0.48 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 2 | 0.48 |
| (1,1939) | 1:58:A:LEU:HD21 | 1:62:A:MET:H | 7 | 0.47 |
| (1,1929) | 1:58:A:LEU:HD12 | 1:45:A:PHE:HB2 | 14 | 0.47 |
| (1,1914) | 1:21:A:LEU:HD23 | 1:18:A:VAL:HB | 18 | 0.47 |
| (1,1834) | 1:41:A:ALA:HB3 | 1:44:A:VAL:HG21 | 1 | 0.47 |
| (1,1834) | 1:41:A:ALA:HB1 | 1:44:A:VAL:HG22 | 11 | 0.47 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 16 | 0.47 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 4 | 0.47 |
| (1,1685) | 1:65:A:LEU:HA | 1:64:A:SER:HB2 | 8 | 0.47 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 9 | 0.47 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 11 | 0.47 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 12 | 0.47 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 15 | 0.47 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 19 | 0.47 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 5 | 0.47 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 2 | 0.47 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG23 | 14 | 0.47 |
| (1,1341) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG13 | 14 | 0.47 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 10 | 0.47 |
| (1,1320) | 1:72:A:VAL:HB | 1:73:A:GLU:HG3 | 20 | 0.47 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD11 | 3 | 0.47 |
| (1,1180) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 20 | 0.47 |
| (1,1179) | 1:58:A:LEU:HD21 | 1:78:A:ILE:HA | 1 | 0.47 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 8 | 0.47 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 9 | 0.47 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 12 | 0.47 |
| (1,1119) | 1:21:A:LEU:HD22 | 1:21:A:LEU:HA | 18 | 0.47 |
| (1,1068) | 1:21:A:LEU:HD11 | 1:21:A:LEU:HA | 5 | 0.47 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 16 | 0.47 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 16 | 0.47 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 6 | 0.47 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 8 | 0.47 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 20 | 0.47 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 12 | 0.47 |
| (1,623) | 1:53:A:ILE:HD11 | 1:45:A:PHE:H | 15 | 0.47 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 2 | 0.47 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD21 | 4 | 0.47 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG11 | 16 | 0.47 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 7 | 0.47 |
| (1,442) | 1:80:A:ARG:HG2 | 1:79:A:GLN:HG3 | 18 | 0.47 |
| (1,418) | 1:76:A:VAL:HB | 1:79:A:GLN:HE21 | 7 | 0.47 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD22 | 1 | 0.47 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD22 | 4 | 0.47 |
| (1,360) | 1:63:A:ARG:HD3 | 1:63:A:ARG:HB3 | 3 | 0.47 |
| (1,315) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HG2 | 1 | 0.47 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG11 | 18 | 0.47 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 3 | 0.47 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE2 | 1 | 0.47 |
| (1,178) | 1:30:A:ILE:HG13 | 1:29:A:ASP:HA | 13 | 0.47 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,115) | 1:19:A:PRO:HD3 | 1:18:A:VAL:HB | 5 | 0.47 |
| (1,74) | 1:75:A:GLU:HB3 | 1:55:A:LYS:HE2 | 14 | 0.47 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG22 | 20 | 0.47 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG13 | 2 | 0.47 |
| (1,1927) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HD2 | 18 | 0.46 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 1 | 0.46 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 20 | 0.46 |
| (1,1789) | 1:89:A:VAL:HG22 | 1:53:A:ILE:HD12 | 14 | 0.46 |
| (1,1789) | 1:89:A:VAL:HG23 | 1:53:A:ILE:HD11 | 18 | 0.46 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 20 | 0.46 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 1 | 0.46 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 10 | 0.46 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG23 | 5 | 0.46 |
| (1,1705) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 3 | 0.46 |
| (1,1623) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HG21 | 1 | 0.46 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 1 | 0.46 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 14 | 0.46 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 17 | 0.46 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 18 | 0.46 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 3 | 0.46 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG22 | 9 | 0.46 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG23 | 13 | 0.46 |
| (1,1376) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HG3 | 7 | 0.46 |
| (1,1348) | 1:53:A:ILE:HG22 | 1:58:A:LEU:HB3 | 8 | 0.46 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 12 | 0.46 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 5 | 0.46 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 2 | 0.46 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 14 | 0.46 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 14 | 0.46 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 1 | 0.46 |
| (1,1042) | 1:53:A:ILE:HD11 | 1:58:A:LEU:HB3 | 14 | 0.46 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 20 | 0.46 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 13 | 0.46 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 5 | 0.46 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 17 | 0.46 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 15 | 0.46 |
| (1,529) | 1:97:A:LEU:HD12 | 1:98:A:LEU:H | 11 | 0.46 |
| (1,523) | 1:97:A:LEU:HD12 | 1:96:A:THR:H | 11 | 0.46 |
| (1,518) | 1:97:A:LEU:HD11 | 1:94:A:PHE:HE1 | 14 | 0.46 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 11 | 0.46 |
| (1,508) | 1:98:A:LEU:HD21 | 1:91:A:PHE:HE1 | 3 | 0.46 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG12 | 20 | 0.46 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 15 | 0.46 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 18 | 0.46 |
| (1,350) | 1:58:A:LEU:HD13 | 1:78:A:ILE:HG13 | 11 | 0.46 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 4 | 0.46 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 19 | 0.46 |
| (1,211) | 1:39:A:ARG:H | 1:35:A:LEU:HD22 | 19 | 0.46 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 9 | 0.46 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 15 | 0.46 |
| (1,175) | 1:28:A:VAL:HG23 | 1:29:A:ASP:HB2 | 17 | 0.46 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 2 | 0.46 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD21 | 8 | 0.46 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 9 | 0.46 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 15 | 0.46 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 3 | 0.46 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 14 | 0.45 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 10 | 0.45 |
| (1,1759) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 10 | 0.45 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 6 | 0.45 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 8 | 0.45 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 14 | 0.45 |
| (1,1747) | 1:30:A:ILE:HG23 | 1:31:A:PRO:HD3 | 17 | 0.45 |
| (1,1733) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HE1 | 7 | 0.45 |
| (1,1731) | 1:35:A:LEU:HD11 | 1:38:A:ILE:HB | 6 | 0.45 |
| (1,1614) | 1:64:A:SER:HA | 1:63:A:ARG:HB3 | 10 | 0.45 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 3 | 0.45 |
| (1,1489) | 1:15:A:ILE:HD11 | 1:15:A:ILE:HB | 16 | 0.45 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 20 | 0.45 |
| (1,1256) | 1:62:A:MET:HA | 1:67:A:TYR:HB3 | 5 | 0.45 |
| (1,1256) | 1:62:A:MET:HA | 1:67:A:TYR:HB3 | 16 | 0.45 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 2 | 0.45 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 13 | 0.45 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 15 | 0.45 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 19 | 0.45 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG22 | 15 | 0.45 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 19 | 0.45 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 5 | 0.45 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 18 | 0.45 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD21 | 14 | 0.45 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD21 | 17 | 0.45 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 19 | 0.45 |
| (1,523) | 1:96:A:THR:H | 1:97:A:LEU:HD21 | 7 | 0.45 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG11 | 19 | 0.45 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,510) | 1:97:A:LEU:HD11 | 1:93:A:GLU:HA | 15 | 0.45 |
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 13 | 0.45 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG13 | 13 | 0.45 |
| (1,458) | 1:94:A:PHE:H | 1:81:A:LEU:HD11 | 2 | 0.45 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG21 | 5 | 0.45 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 12 | 0.45 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 13 | 0.45 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD12 | 6 | 0.45 |
| (1,243) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HB3 | 15 | 0.45 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 17 | 0.45 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 7 | 0.45 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 19 | 0.45 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 4 | 0.45 |
| (1,139) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 14 | 0.45 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 7 | 0.45 |
| (1,115) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HB | 12 | 0.45 |
| (1,100) | 1:25:A:GLN:HG3 | 1:26:A:ARG:HG2 | 17 | 0.45 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 3 | 0.45 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE3 | 17 | 0.45 |
| (1,4) | 1:22:A:LEU:HB3 | 1:24:A:GLU:H | 1 | 0.45 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD21 | 4 | 0.44 |
| (1,1759) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 9 | 0.44 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 12 | 0.44 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 20 | 0.44 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 2 | 0.44 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 3 | 0.44 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 8 | 0.44 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 14 | 0.44 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 14 | 0.44 |
| (1,1481) | 1:38:A:ILE:HD11 | 1:35:A:LEU:H | 3 | 0.44 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 9 | 0.44 |
| (1,1481) | 1:38:A:ILE:HD11 | 1:35:A:LEU:H | 11 | 0.44 |
| (1,1481) | 1:38:A:ILE:HD12 | 1:35:A:LEU:H | 16 | 0.44 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 2 | 0.44 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 11 | 0.44 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 17 | 0.44 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 20 | 0.44 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 16 | 0.44 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 10 | 0.44 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 1 | 0.44 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 15 | 0.44 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 6 | 0.44 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,775) | 1:64:A:SER:HB2 | 1:65:A:LEU:H | 7 | 0.44 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 18 | 0.44 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 20 | 0.44 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 19 | 0.44 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 9 | 0.44 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 9 | 0.44 |
| (1,479) | 1:89:A:VAL:HG21 | 1:88:A:GLN:H | 2 | 0.44 |
| (1,390) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD22 | 6 | 0.44 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 6 | 0.44 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 8 | 0.44 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD22 | 9 | 0.44 |
| (1,352) | 1:74:A:LEU:HD23 | 1:59:A:GLY:HA2 | 11 | 0.44 |
| (1,349) | 1:58:A:LEU:HD22 | 1:61:A:ALA:HB2 | 9 | 0.44 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD12 | 4 | 0.44 |
| (1,205) | 1:35:A:LEU:HD11 | 1:35:A:LEU:H | 3 | 0.44 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 16 | 0.44 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 20 | 0.44 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 1 | 0.44 |
| (1,166) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HD3 | 20 | 0.44 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 3 | 0.44 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 13 | 0.44 |
| (1,134) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HD21 | 9 | 0.44 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 15 | 0.44 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 11 | 0.44 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG13 | 18 | 0.44 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 1 | 0.44 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE2 | 6 | 0.44 |
| (1,1789) | 1:89:A:VAL:HG21 | 1:53:A:ILE:HD11 | 10 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 4 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 5 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 11 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 15 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 17 | 0.43 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 19 | 0.43 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 6 | 0.43 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG22 | 14 | 0.43 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 15 | 0.43 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 6 | 0.43 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG21 | 7 | 0.43 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 11 | 0.43 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG21 | 12 | 0.43 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 17 | 0.43 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 8 | 0.43 |
| (1,1187) | 1:27:A:PRO:HG2 | 1:28:A:VAL:H | 12 | 0.43 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 8 | 0.43 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 1 | 0.43 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 14 | 0.43 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 14 | 0.43 |
| (1,1034) | 1:53:A:ILE:HD13 | 1:39:A:ARG:HA | 13 | 0.43 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 18 | 0.43 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 13 | 0.43 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 3 | 0.43 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 13 | 0.43 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 6 | 0.43 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 12 | 0.43 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 15 | 0.43 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 3 | 0.43 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD22 | 16 | 0.43 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 6 | 0.43 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 19 | 0.43 |
| (1,474) | 1:89:A:VAL:HG23 | 1:86:A:ASP:H | 5 | 0.43 |
| (1,472) | 1:89:A:VAL:HG21 | 1:85:A:GLY:H | 15 | 0.43 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 4 | 0.43 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD12 | 6 | 0.43 |
| (1,390) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD22 | 3 | 0.43 |
| (1,348) | 1:58:A:LEU:HD22 | 1:61:A:ALA:H | 6 | 0.43 |
| (1,345) | 1:58:A:LEU:HD23 | 1:58:A:LEU:H | 13 | 0.43 |
| (1,323) | 1:74:A:LEU:HD12 | 1:55:A:LYS:HE2 | 5 | 0.43 |
| (1,323) | 1:55:A:LYS:HE3 | 1:74:A:LEU:HD11 | 7 | 0.43 |
| (1,249) | 1:41:A:ALA:HB3 | 1:98:A:LEU:HD13 | 16 | 0.43 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 15 | 0.43 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 6 | 0.43 |
| (1,175) | 1:28:A:VAL:HG23 | 1:29:A:ASP:HB2 | 10 | 0.43 |
| (1,174) | 1:28:A:VAL:HG23 | 1:29:A:ASP:HA | 15 | 0.43 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG22 | 15 | 0.43 |
| (1,34) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HE2 | 13 | 0.43 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG13 | 5 | 0.43 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 19 | 0.42 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 14 | 0.42 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 15 | 0.42 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG23 | 8 | 0.42 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 6 | 0.42 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 3 | 0.42 |
| (1,1490) | 1:15:A:ILE:HD11 | 1:16:A:TYR:H | 16 | 0.42 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 3 | 0.42 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 4 | 0.42 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 7 | 0.42 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 1 | 0.42 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD12 | 8 | 0.42 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 19 | 0.42 |
| (1,775) | 1:64:A:SER:HB2 | 1:65:A:LEU:H | 16 | 0.42 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 5 | 0.42 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 2 | 0.42 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 20 | 0.42 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 8 | 0.42 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD23 | 17 | 0.42 |
| (1,529) | 1:97:A:LEU:HD13 | 1:98:A:LEU:H | 15 | 0.42 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD22 | 20 | 0.42 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG12 | 5 | 0.42 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 9 | 0.42 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD22 | 4 | 0.42 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 20 | 0.42 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 6 | 0.42 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 6 | 0.42 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD23 | 8 | 0.42 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 13 | 0.42 |
| (1,202) | 1:35:A:LEU:HA | 1:34:A:GLU:HG2 | 4 | 0.42 |
| (1,159) | 1:26:A:ARG:HD3 | 1:26:A:ARG:H | 12 | 0.42 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG11 | 13 | 0.42 |
| (1,84) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HG2 | 9 | 0.42 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 12 | 0.42 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 16 | 0.41 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 1 | 0.41 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 9 | 0.41 |
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 13 | 0.41 |
| (1,1751) | 1:30:A:ILE:HG23 | 1:35:A:LEU:H | 1 | 0.41 |
| (1,1747) | 1:30:A:ILE:HG21 | 1:31:A:PRO:HD3 | 4 | 0.41 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 4 | 0.41 |
| (1,1592) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HG21 | 12 | 0.41 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 10 | 0.41 |
| (1,1491) | 1:16:A:TYR:HD1 | 1:15:A:ILE:HD11 | 16 | 0.41 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 12 | 0.41 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 16 | 0.41 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 5 | 0.41 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD13 | 9 | 0.41 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 10 | 0.41 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 1 | 0.41 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 5 | 0.41 |
| (1,1152) | 1:58:A:LEU:HD11 | 1:62:A:MET:HG3 | 13 | 0.41 |
| (1,1119) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 12 | 0.41 |
| (1,1068) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 6 | 0.41 |
| (1,1068) | 1:21:A:LEU:HD11 | 1:21:A:LEU:HA | 13 | 0.41 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 2 | 0.41 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 12 | 0.41 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 19 | 0.41 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 20 | 0.41 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 9 | 0.41 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 10 | 0.41 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 16 | 0.41 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 17 | 0.41 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD23 | 2 | 0.41 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 7 | 0.41 |
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 5 | 0.41 |
| (1,402) | 1:74:A:LEU:HD23 | 1:73:A:GLU:H | 11 | 0.41 |
| (1,371) | 1:65:A:LEU:HD12 | 1:67:A:TYR:H | 11 | 0.41 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 3 | 0.41 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD22 | 9 | 0.41 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 16 | 0.41 |
| (1,299) | 1:53:A:ILE:HD12 | 1:89:A:VAL:HG11 | 3 | 0.41 |
| (1,211) | 1:35:A:LEU:HD13 | 1:39:A:ARG:H | 11 | 0.41 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 19 | 0.41 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 18 | 0.41 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 10 | 0.41 |
| (1,147) | 1:22:A:LEU:HD12 | 1:23:A:SER:HB3 | 1 | 0.41 |
| (1,119) | 1:18:A:VAL:HG11 | 1:21:A:LEU:HB2 | 12 | 0.41 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 13 | 0.41 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 18 | 0.41 |
| (1,36) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HE2 | 2 | 0.41 |
| (1,4) | 1:24:A:GLU:H | 1:22:A:LEU:HB2 | 10 | 0.41 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 12 | 0.4 |
| (1,1901) | 1:58:A:LEU:HD23 | 1:42:A:PHE:HZ | 7 | 0.4 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG23 | 4 | 0.4 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 5 | 0.4 |
| (1,1733) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HE2 | 16 | 0.4 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 11 | 0.4 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 18 | 0.4 |
| (1,1704) | 1:74:A:LEU:HD22 | 1:55:A:LYS:H | 10 | 0.4 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 17 | 0.4 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 8 | 0.4 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 11 | 0.4 |
| (1,1455) | 1:60:A:THR:HG22 | 1:45:A:PHE:HB3 | 9 | 0.4 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 8 | 0.4 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG23 | 9 | 0.4 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 10 | 0.4 |
| (1,1338) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG13 | 20 | 0.4 |
| (1,1333) | 1:95:A:VAL:HG13 | 1:35:A:LEU:HA | 3 | 0.4 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 3 | 0.4 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 13 | 0.4 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 10 | 0.4 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 20 | 0.4 |
| (1,1130) | 1:88:A:GLN:HG3 | 1:54:A:SER:HB2 | 15 | 0.4 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG21 | 20 | 0.4 |
| (1,1050) | 1:53:A:ILE:HD12 | 1:45:A:PHE:HD2 | 5 | 0.4 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 7 | 0.4 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 3 | 0.4 |
| (1,844) | 1:78:A:ILE:HG23 | 1:85:A:GLY:H | 17 | 0.4 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 4 | 0.4 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 9 | 0.4 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 17 | 0.4 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 19 | 0.4 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 11 | 0.4 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 15 | 0.4 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG12 | 6 | 0.4 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 19 | 0.4 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 5 | 0.4 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 4 | 0.4 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 12 | 0.4 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG23 | 14 | 0.4 |
| (1,334) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HG2 | 10 | 0.4 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 11 | 0.4 |
| (1,202) | 1:35:A:LEU:HA | 1:34:A:GLU:HG2 | 2 | 0.4 |
| (1,199) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 9 | 0.4 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG12 | 11 | 0.4 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 20 | 0.4 |
| (1,34) | 1:74:A:LEU:HD21 | 1:55:A:LYS:HE3 | 14 | 0.4 |
| (1,1942) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG2 | 20 | 0.39 |
| (1,1901) | 1:58:A:LEU:HD22 | 1:42:A:PHE:HZ | 19 | 0.39 |
| (1,1751) | 1:30:A:ILE:HG22 | 1:35:A:LEU:H | 19 | 0.39 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG22 | 17 | 0.39 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD2 | 9 | 0.39 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 8 | 0.39 |
| (1,1486) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HD1 | 15 | 0.39 |
| (1,1455) | 1:60:A:THR:HG23 | 1:45:A:PHE:HB3 | 4 | 0.39 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 12 | 0.39 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG21 | 20 | 0.39 |
| (1,1386) | 1:95:A:VAL:HG22 | 1:91:A:PHE:HZ | 20 | 0.39 |
| (1,1376) | 1:95:A:VAL:HG22 | 1:92:A:GLU:HG3 | 13 | 0.39 |
| (1,1313) | 1:77:A:ILE:HA | 1:77:A:ILE:HD12 | 7 | 0.39 |
| (1,1251) | 1:35:A:LEU:HG | 1:91:A:PHE:HE1 | 4 | 0.39 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG13 | 10 | 0.39 |
| (1,1174) | 1:30:A:ILE:HD13 | 1:30:A:ILE:HA | 8 | 0.39 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 16 | 0.39 |
| (1,1094) | 1:53:A:ILE:HG22 | 1:45:A:PHE:HD2 | 14 | 0.39 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 4 | 0.39 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 11 | 0.39 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD11 | 15 | 0.39 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 4 | 0.39 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 14 | 0.39 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 20 | 0.39 |
| (1,659) | 1:53:A:ILE:HG22 | 1:52:A:PHE:H | 11 | 0.39 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 14 | 0.39 |
| (1,623) | 1:53:A:ILE:HD13 | 1:45:A:PHE:H | 1 | 0.39 |
| (1,623) | 1:53:A:ILE:HD11 | 1:45:A:PHE:H | 5 | 0.39 |
| (1,491) | 1:89:A:VAL:HG12 | 1:93:A:GLU:H | 11 | 0.39 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG12 | 15 | 0.39 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG21 | 9 | 0.39 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD22 | 14 | 0.39 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 17 | 0.39 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 19 | 0.39 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 8 | 0.39 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 15 | 0.39 |
| (1,327) | 1:74:A:LEU:HD13 | 1:56:A:GLN:H | 20 | 0.39 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 4 | 0.39 |
| (1,243) | 1:39:A:ARG:HG2 | 1:91:A:PHE:HB3 | 18 | 0.39 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG23 | 2 | 0.39 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD22 | 11 | 0.39 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 17 | 0.39 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD13 | 1 | 0.39 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 5 | 0.39 |
| (1,1939) | 1:58:A:LEU:HD23 | 1:62:A:MET:H | 19 | 0.38 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 3 | 0.38 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG21 | 2 | 0.38 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1756) | 1:80:A:ARG:HA | 1:79:A:GLN:HB3 | 2 | 0.38 |
| (1,1751) | 1:30:A:ILE:HG22 | 1:35:A:LEU:H | 18 | 0.38 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 7 | 0.38 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 7 | 0.38 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 20 | 0.38 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD13 | 7 | 0.38 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 5 | 0.38 |
| (1,1463) | 1:78:A:ILE:HD12 | 1:55:A:LYS:HG2 | 17 | 0.38 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG21 | 12 | 0.38 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG23 | 13 | 0.38 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 11 | 0.38 |
| (1,1333) | 1:95:A:VAL:HG11 | 1:35:A:LEU:HA | 13 | 0.38 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 2 | 0.38 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 7 | 0.38 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 12 | 0.38 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 16 | 0.38 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 19 | 0.38 |
| (1,1152) | 1:58:A:LEU:HD13 | 1:62:A:MET:HG3 | 4 | 0.38 |
| (1,1107) | 1:16:A:TYR:HA | 1:15:A:ILE:HG23 | 13 | 0.38 |
| (1,1068) | 1:21:A:LEU:HD12 | 1:21:A:LEU:HA | 9 | 0.38 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 13 | 0.38 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 18 | 0.38 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 14 | 0.38 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 5 | 0.38 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB3 | 11 | 0.38 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 10 | 0.38 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 13 | 0.38 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 2 | 0.38 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD23 | 18 | 0.38 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 3 | 0.38 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 18 | 0.38 |
| (1,491) | 1:89:A:VAL:HG12 | 1:93:A:GLU:H | 17 | 0.38 |
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 17 | 0.38 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG11 | 2 | 0.38 |
| (1,401) | 1:72:A:VAL:HG13 | 1:75:A:GLU:HB3 | 2 | 0.38 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD21 | 11 | 0.38 |
| (1,352) | 1:74:A:LEU:HD21 | 1:59:A:GLY:HA2 | 10 | 0.38 |
| (1,347) | 1:58:A:LEU:HD21 | 1:59:A:GLY:H | 7 | 0.38 |
| (1,346) | 1:74:A:LEU:HD21 | 1:58:A:LEU:H | 2 | 0.38 |
| (1,327) | 1:74:A:LEU:HD22 | 1:56:A:GLN:H | 7 | 0.38 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 20 | 0.38 |
| (1,281) | 1:47:A:ARG:HD2 | 1:57:A:GLU:HA | 3 | 0.38 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 17 | 0.38 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 8 | 0.38 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD22 | 2 | 0.38 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 12 | 0.38 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB3 | 14 | 0.38 |
| (1,75) | 1:74:A:LEU:HB2 | 1:75:A:GLU:HB2 | 1 | 0.38 |
| (1,1925) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB2 | 19 | 0.37 |
| (1,1907) | 1:95:A:VAL:HG13 | 1:91:A:PHE:HZ | 9 | 0.37 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 6 | 0.37 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG21 | 16 | 0.37 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG22 | 13 | 0.37 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD11 | 10 | 0.37 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 20 | 0.37 |
| (1,1600) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 8 | 0.37 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 2 | 0.37 |
| (1,1521) | 1:89:A:VAL:HA | 1:78:A:ILE:HG21 | 7 | 0.37 |
| (1,1511) | 1:55:A:LYS:HD2 | 1:78:A:ILE:HG21 | 14 | 0.37 |
| (1,1481) | 1:38:A:ILE:HD11 | 1:35:A:LEU:H | 1 | 0.37 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD13 | 4 | 0.37 |
| (1,1416) | 1:81:A:LEU:HA | 1:89:A:VAL:HG11 | 10 | 0.37 |
| (1,1400) | 1:77:A:ILE:HG23 | 1:58:A:LEU:HB2 | 18 | 0.37 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 19 | 0.37 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG21 | 15 | 0.37 |
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 12 | 0.37 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 4 | 0.37 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG22 | 6 | 0.37 |
| (1,1347) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HD2 | 8 | 0.37 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 14 | 0.37 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 16 | 0.37 |
| (1,1175) | 1:30:A:ILE:HD13 | 1:29:A:ASP:H | 20 | 0.37 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 10 | 0.37 |
| (1,1068) | 1:21:A:LEU:HD12 | 1:21:A:LEU:HA | 15 | 0.37 |
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 1 | 0.37 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 13 | 0.37 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD12 | 9 | 0.37 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG22 | 3 | 0.37 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 1 | 0.37 |
| (1,685) | 1:53:A:ILE:HD12 | 1:54:A:SER:H | 5 | 0.37 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 20 | 0.37 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 9 | 0.37 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 5 | 0.37 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 5 | 0.37 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,491) | 1:89:A:VAL:HG13 | 1:93:A:GLU:H | 15 | 0.37 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG11 | 16 | 0.37 |
| (1,451) | 1:89:A:VAL:HG23 | 1:81:A:LEU:H | 10 | 0.37 |
| (1,387) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HB3 | 4 | 0.37 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 2 | 0.37 |
| (1,352) | 1:74:A:LEU:HD21 | 1:59:A:GLY:HA2 | 16 | 0.37 |
| (1,349) | 1:58:A:LEU:HD21 | 1:61:A:ALA:HB2 | 14 | 0.37 |
| (1,335) | 1:71:A:GLU:HA | 1:56:A:GLN:HE21 | 7 | 0.37 |
| (1,309) | 1:74:A:LEU:HD11 | 1:55:A:LYS:H | 19 | 0.37 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 18 | 0.37 |
| (1,208) | 1:36:A:GLU:HB2 | 1:35:A:LEU:HB3 | 6 | 0.37 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 12 | 0.37 |
| (1,202) | 1:35:A:LEU:HA | 1:34:A:GLU:HG2 | 13 | 0.37 |
| (1,193) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HB2 | 10 | 0.37 |
| (1,157) | 1:26:A:ARG:HB3 | 1:25:A:GLN:HG2 | 17 | 0.37 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG13 | 19 | 0.37 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 5 | 0.37 |
| (1,1922) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HA | 4 | 0.36 |
| (1,1834) | 1:41:A:ALA:HB2 | 1:44:A:VAL:HG23 | 14 | 0.36 |
| (1,1806) | 1:64:A:SER:HB3 | 1:63:A:ARG:HG2 | 3 | 0.36 |
| (1,1751) | 1:30:A:ILE:HG23 | 1:35:A:LEU:H | 14 | 0.36 |
| (1,1734) | 1:35:A:LEU:HD12 | 1:91:A:PHE:HD2 | 10 | 0.36 |
| (1,1733) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HE1 | 13 | 0.36 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG21 | 7 | 0.36 |
| (1,1504) | 1:82:A:ASP:HA | 1:78:A:ILE:HG23 | 18 | 0.36 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE1 | 17 | 0.36 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG21 | 2 | 0.36 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 19 | 0.36 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 15 | 0.36 |
| (1,1180) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 5 | 0.36 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 9 | 0.36 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 7 | 0.36 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 9 | 0.36 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 10 | 0.36 |
| (1,1050) | 1:53:A:ILE:HD12 | 1:45:A:PHE:HD2 | 15 | 0.36 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 15 | 0.36 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 6 | 0.36 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 20 | 0.36 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 8 | 0.36 |
| (1,520) | 1:98:A:LEU:HD21 | 1:95:A:VAL:HA | 17 | 0.36 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 17 | 0.36 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 15 | 0.36 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 16 | 0.36 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 20 | 0.36 |
| (1,442) | 1:80:A:ARG:HG2 | 1:79:A:GLN:HG3 | 7 | 0.36 |
| (1,424) | 1:76:A:VAL:HG11 | 1:79:A:GLN:HE21 | 6 | 0.36 |
| (1,371) | 1:65:A:LEU:HD11 | 1:67:A:TYR:H | 10 | 0.36 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 10 | 0.36 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 2 | 0.36 |
| (1,205) | 1:35:A:LEU:HD11 | 1:35:A:LEU:H | 8 | 0.36 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 16 | 0.36 |
| (1,181) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HB | 13 | 0.36 |
| (1,176) | 1:28:A:VAL:HG23 | 1:30:A:ILE:H | 3 | 0.36 |
| (1,162) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 9 | 0.36 |
| (1,139) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 10 | 0.36 |
| (1,115) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HB | 6 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG22 | 1 | 0.36 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 13 | 0.36 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 7 | 0.36 |
| (1,50) | 1:70:A:ASN:HA | 1:71:A:GLU:HG2 | 1 | 0.36 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG3 | 12 | 0.36 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG13 | 8 | 0.36 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD21 | 11 | 0.35 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 9 | 0.35 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG21 | 10 | 0.35 |
| (1,1733) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HE2 | 15 | 0.35 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 10 | 0.35 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB3 | 11 | 0.35 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 15 | 0.35 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG21 | 6 | 0.35 |
| (1,1490) | 1:15:A:ILE:HD11 | 1:16:A:TYR:H | 7 | 0.35 |
| (1,1490) | 1:15:A:ILE:HD13 | 1:16:A:TYR:H | 17 | 0.35 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD12 | 17 | 0.35 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 4 | 0.35 |
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 14 | 0.35 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 16 | 0.35 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 12 | 0.35 |
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 18 | 0.35 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD13 | 3 | 0.35 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD12 | 4 | 0.35 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD11 | 9 | 0.35 |
| (1,1256) | 1:62:A:MET:HA | 1:67:A:TYR:HB3 | 14 | 0.35 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 3 | 0.35 |
| (1,1152) | 1:58:A:LEU:HD13 | 1:62:A:MET:HG3 | 9 | 0.35 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1050) | 1:53:A:ILE:HD11 | 1:45:A:PHE:HD2 | 3 | 0.35 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 6 | 0.35 |
| (1,1050) | 1:53:A:ILE:HD12 | 1:45:A:PHE:HD2 | 8 | 0.35 |
| (1,1050) | 1:53:A:ILE:HD12 | 1:45:A:PHE:HD2 | 16 | 0.35 |
| (1,1050) | 1:53:A:ILE:HD13 | 1:45:A:PHE:HD2 | 17 | 0.35 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD22 | 4 | 0.35 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD22 | 14 | 0.35 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 8 | 0.35 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 4 | 0.35 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 11 | 0.35 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 16 | 0.35 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 20 | 0.35 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 10 | 0.35 |
| (1,493) | 1:89:A:VAL:HG12 | 1:93:A:GLU:HG2 | 2 | 0.35 |
| (1,491) | 1:89:A:VAL:HG12 | 1:93:A:GLU:H | 4 | 0.35 |
| (1,472) | 1:89:A:VAL:HG22 | 1:85:A:GLY:H | 2 | 0.35 |
| (1,427) | 1:80:A:ARG:HD3 | 1:77:A:ILE:HA | 4 | 0.35 |
| (1,389) | 1:72:A:VAL:HG12 | 1:70:A:ASN:HD21 | 13 | 0.35 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 8 | 0.35 |
| (1,358) | 1:65:A:LEU:HD13 | 1:63:A:ARG:H | 5 | 0.35 |
| (1,348) | 1:58:A:LEU:HD12 | 1:61:A:ALA:H | 4 | 0.35 |
| (1,345) | 1:58:A:LEU:HD21 | 1:58:A:LEU:H | 14 | 0.35 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 5 | 0.35 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD12 | 19 | 0.35 |
| (1,256) | 1:53:A:ILE:HD12 | 1:43:A:LYS:HG3 | 9 | 0.35 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 10 | 0.35 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 16 | 0.35 |
| (1,210) | 1:35:A:LEU:HD11 | 1:38:A:ILE:HB | 1 | 0.35 |
| (1,205) | 1:35:A:LEU:HD12 | 1:35:A:LEU:H | 9 | 0.35 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 4 | 0.35 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 17 | 0.35 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG11 | 11 | 0.35 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 15 | 0.35 |
| (1,9) | 1:69:A:PRO:HG3 | 1:61:A:ALA:H | 19 | 0.35 |
| (1,1949) | 1:81:A:LEU:H | 1:81:A:LEU:HD12 | 1 | 0.34 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 4 | 0.34 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 14 | 0.34 |
| (1,1913) | 1:15:A:ILE:HG13 | 1:16:A:TYR:H | 16 | 0.34 |
| (1,1899) | 1:42:A:PHE:HZ | 1:61:A:ALA:HB1 | 14 | 0.34 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 3 | 0.34 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG21 | 11 | 0.34 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 4 | 0.34 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1751) | 1:30:A:ILE:HG21 | 1:35:A:LEU:H | 7 | 0.34 |
| (1,1600) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 12 | 0.34 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG21 | 9 | 0.34 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 13 | 0.34 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD13 | 11 | 0.34 |
| (1,1488) | 1:31:A:PRO:HD3 | 1:30:A:ILE:HD11 | 13 | 0.34 |
| (1,1376) | 1:95:A:VAL:HG21 | 1:92:A:GLU:HG3 | 20 | 0.34 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG21 | 1 | 0.34 |
| (1,1338) | 1:95:A:VAL:HG12 | 1:38:A:ILE:HG13 | 18 | 0.34 |
| (1,1333) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HA | 4 | 0.34 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 11 | 0.34 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG11 | 11 | 0.34 |
| (1,1175) | 1:30:A:ILE:HD11 | 1:29:A:ASP:H | 19 | 0.34 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 6 | 0.34 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 17 | 0.34 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 19 | 0.34 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 5 | 0.34 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 6 | 0.34 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 20 | 0.34 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 16 | 0.34 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 16 | 0.34 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD22 | 20 | 0.34 |
| (1,474) | 1:89:A:VAL:HG23 | 1:86:A:ASP:H | 17 | 0.34 |
| (1,458) | 1:81:A:LEU:HD22 | 1:94:A:PHE:H | 11 | 0.34 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG21 | 11 | 0.34 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG23 | 17 | 0.34 |
| (1,429) | 1:78:A:ILE:HA | 1:81:A:LEU:HD11 | 8 | 0.34 |
| (1,399) | 1:72:A:VAL:HG21 | 1:73:A:GLU:H | 5 | 0.34 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD22 | 14 | 0.34 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 13 | 0.34 |
| (1,334) | 1:74:A:LEU:HD12 | 1:56:A:GLN:HG3 | 19 | 0.34 |
| (1,297) | 1:89:A:VAL:HG21 | 1:53:A:ILE:H | 10 | 0.34 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG23 | 5 | 0.34 |
| (1,224) | 1:39:A:ARG:HG2 | 1:38:A:ILE:HG22 | 7 | 0.34 |
| (1,199) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 3 | 0.34 |
| (1,199) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 16 | 0.34 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 2 | 0.34 |
| (1,157) | 1:26:A:ARG:HB3 | 1:25:A:GLN:HG2 | 3 | 0.34 |
| (1,74) | 1:75:A:GLU:HB3 | 1:55:A:LYS:HE2 | 4 | 0.34 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 4 | 0.34 |
| (1,34) | 1:74:A:LEU:HD22 | 1:55:A:LYS:HE3 | 9 | 0.34 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG11 | 11 | 0.34 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG12 | 14 | 0.34 |
| (1,19) | 1:32:A:GLU:HG2 | 1:36:A:GLU:H | 11 | 0.34 |
| (1,1938) | 1:58:A:LEU:HD23 | 1:59:A:GLY:HA3 | 13 | 0.33 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 3 | 0.33 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 17 | 0.33 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 16 | 0.33 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 12 | 0.33 |
| (1,1772) | 1:95:A:VAL:HG11 | 1:92:A:GLU:HG3 | 20 | 0.33 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 1 | 0.33 |
| (1,1737) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HA | 14 | 0.33 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG23 | 2 | 0.33 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG23 | 13 | 0.33 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG21 | 5 | 0.33 |
| (1,1481) | 1:38:A:ILE:HD12 | 1:35:A:LEU:H | 6 | 0.33 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG23 | 14 | 0.33 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 9 | 0.33 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 10 | 0.33 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG23 | 9 | 0.33 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD12 | 14 | 0.33 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD12 | 20 | 0.33 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG13 | 16 | 0.33 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG22 | 2 | 0.33 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 2 | 0.33 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 6 | 0.33 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 8 | 0.33 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 1 | 0.33 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 4 | 0.33 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 1 | 0.33 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD22 | 19 | 0.33 |
| (1,529) | 1:97:A:LEU:HD11 | 1:98:A:LEU:H | 8 | 0.33 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 7 | 0.33 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG12 | 4 | 0.33 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 2 | 0.33 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG12 | 5 | 0.33 |
| (1,458) | 1:81:A:LEU:HD23 | 1:94:A:PHE:H | 3 | 0.33 |
| (1,399) | 1:72:A:VAL:HG23 | 1:73:A:GLU:H | 4 | 0.33 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 11 | 0.33 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 5 | 0.33 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 20 | 0.33 |
| (1,337) | 1:56:A:GLN:HE22 | 1:75:A:GLU:HG2 | 17 | 0.33 |
| (1,336) | 1:74:A:LEU:HD11 | 1:56:A:GLN:HE22 | 7 | 0.33 |
| (1,297) | 1:89:A:VAL:HG23 | 1:53:A:ILE:H | 19 | 0.33 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG22 | 11 | 0.33 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 2 | 0.33 |
| (1,142) | 1:25:A:GLN:HE21 | 1:21:A:LEU:HD13 | 7 | 0.33 |
| (1,121) | 1:20:A:ASN:HB3 | 1:19:A:PRO:HB3 | 16 | 0.33 |
| (1,50) | 1:70:A:ASN:HA | 1:71:A:GLU:HG2 | 20 | 0.33 |
| (1,1918) | 1:22:A:LEU:HD13 | 1:23:A:SER:HB3 | 4 | 0.32 |
| (1,1909) | 1:15:A:ILE:HA | 1:16:A:TYR:HE1 | 13 | 0.32 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 19 | 0.32 |
| (1,1751) | 1:30:A:ILE:HG21 | 1:35:A:LEU:H | 6 | 0.32 |
| (1,1671) | 1:61:A:ALA:HA | 1:42:A:PHE:HD2 | 14 | 0.32 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 18 | 0.32 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 2 | 0.32 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB2 | 13 | 0.32 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE1 | 2 | 0.32 |
| (1,1484) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HE1 | 13 | 0.32 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 12 | 0.32 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 1 | 0.32 |
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 18 | 0.32 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 3 | 0.32 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 7 | 0.32 |
| (1,1152) | 1:58:A:LEU:HD12 | 1:62:A:MET:HG3 | 19 | 0.32 |
| (1,1119) | 1:21:A:LEU:HD22 | 1:21:A:LEU:HA | 15 | 0.32 |
| (1,1089) | 1:53:A:ILE:HG22 | 1:46:A:ASP:H | 18 | 0.32 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 10 | 0.32 |
| (1,931) | 1:72:A:VAL:HB | 1:72:A:VAL:H | 11 | 0.32 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB1 | 2 | 0.32 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 9 | 0.32 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 12 | 0.32 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 19 | 0.32 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 18 | 0.32 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 3 | 0.32 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 13 | 0.32 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 2 | 0.32 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 2 | 0.32 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 13 | 0.32 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 17 | 0.32 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD22 | 6 | 0.32 |
| (1,529) | 1:98:A:LEU:H | 1:97:A:LEU:HD22 | 1 | 0.32 |
| (1,518) | 1:97:A:LEU:HD11 | 1:94:A:PHE:HE1 | 1 | 0.32 |
| (1,470) | 1:83:A:MET:HG2 | 1:97:A:LEU:HD23 | 10 | 0.32 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 11 | 0.32 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG12 | 5 | 0.32 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 11 | 0.32 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 17 | 0.32 |
| (1,399) | 1:72:A:VAL:HG22 | 1:73:A:GLU:H | 8 | 0.32 |
| (1,371) | 1:65:A:LEU:HD11 | 1:67:A:TYR:H | 6 | 0.32 |
| (1,364) | 1:64:A:SER:H | 1:65:A:LEU:HD23 | 5 | 0.32 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 16 | 0.32 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 17 | 0.32 |
| (1,237) | 1:39:A:ARG:HA | 1:43:A:LYS:HG2 | 15 | 0.32 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 18 | 0.32 |
| (1,139) | 1:21:A:LEU:HD11 | 1:21:A:LEU:HA | 7 | 0.32 |
| (1,121) | 1:20:A:ASN:HB3 | 1:19:A:PRO:HB3 | 7 | 0.32 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 9 | 0.32 |
| (1,1) | 1:21:A:LEU:HB2 | 1:18:A:VAL:H | 6 | 0.32 |
| (1,1907) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HZ | 8 | 0.31 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 7 | 0.31 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 18 | 0.31 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 5 | 0.31 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG23 | 14 | 0.31 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 16 | 0.31 |
| (1,1734) | 1:35:A:LEU:HD13 | 1:91:A:PHE:HD2 | 2 | 0.31 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG21 | 16 | 0.31 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 3 | 0.31 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG22 | 7 | 0.31 |
| (1,1510) | 1:79:A:GLN:HB2 | 1:78:A:ILE:HG21 | 18 | 0.31 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 8 | 0.31 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 15 | 0.31 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG22 | 19 | 0.31 |
| (1,1347) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HD2 | 15 | 0.31 |
| (1,1337) | 1:95:A:VAL:HG12 | 1:94:A:PHE:HB3 | 9 | 0.31 |
| (1,1318) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HD11 | 10 | 0.31 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 12 | 0.31 |
| (1,1270) | 1:55:A:LYS:HB3 | 1:78:A:ILE:HD11 | 18 | 0.31 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 10 | 0.31 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 17 | 0.31 |
| (1,1175) | 1:30:A:ILE:HD13 | 1:29:A:ASP:H | 3 | 0.31 |
| (1,1175) | 1:30:A:ILE:HD13 | 1:29:A:ASP:H | 18 | 0.31 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 9 | 0.31 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 12 | 0.31 |
| (1,863) | 1:88:A:GLN:HG2 | 1:88:A:GLN:H | 18 | 0.31 |
| (1,685) | 1:53:A:ILE:HD11 | 1:54:A:SER:H | 1 | 0.31 |
| (1,659) | 1:53:A:ILE:HG23 | 1:52:A:PHE:H | 7 | 0.31 |
| (1,601) | 1:43:A:LYS:H | 1:43:A:LYS:HE2 | 10 | 0.31 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 11 | 0.31 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 20 | 0.31 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 4 | 0.31 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 7 | 0.31 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 15 | 0.31 |
| (1,491) | 1:89:A:VAL:HG11 | 1:93:A:GLU:H | 19 | 0.31 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 17 | 0.31 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 11 | 0.31 |
| (1,374) | 1:65:A:LEU:HD12 | 1:67:A:TYR:HE2 | 11 | 0.31 |
| (1,348) | 1:58:A:LEU:HD11 | 1:61:A:ALA:H | 12 | 0.31 |
| (1,293) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HB3 | 5 | 0.31 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD12 | 17 | 0.31 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE2 | 8 | 0.31 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 8 | 0.31 |
| (1,147) | 1:22:A:LEU:HD13 | 1:23:A:SER:HB3 | 15 | 0.31 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 1 | 0.31 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 4 | 0.31 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 17 | 0.31 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 15 | 0.31 |
| (1,44) | 1:72:A:VAL:HG21 | 1:71:A:GLU:HG3 | 16 | 0.31 |
| (1,1941) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 1 | 0.3 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 10 | 0.3 |
| (1,1924) | 1:39:A:ARG:HD3 | 1:39:A:ARG:HB2 | 7 | 0.3 |
| (1,1922) | 1:98:A:LEU:HD11 | 1:38:A:ILE:HA | 15 | 0.3 |
| (1,1911) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA3 | 1 | 0.3 |
| (1,1840) | 1:73:A:GLU:HG3 | 1:72:A:VAL:H | 14 | 0.3 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 10 | 0.3 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG11 | 10 | 0.3 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 2 | 0.3 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 20 | 0.3 |
| (1,1733) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HE2 | 4 | 0.3 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 4 | 0.3 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG23 | 1 | 0.3 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 11 | 0.3 |
| (1,1337) | 1:95:A:VAL:HG12 | 1:94:A:PHE:HB3 | 16 | 0.3 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 5 | 0.3 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG12 | 15 | 0.3 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 14 | 0.3 |
| (1,1152) | 1:58:A:LEU:HD12 | 1:62:A:MET:HG3 | 7 | 0.3 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 7 | 0.3 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 2 | 0.3 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 9 | 0.3 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 1 | 0.3 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 4 | 0.3 |
| (1,529) | 1:97:A:LEU:HD11 | 1:98:A:LEU:H | 10 | 0.3 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 16 | 0.3 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 5 | 0.3 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 13 | 0.3 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 4 | 0.3 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 12 | 0.3 |
| (1,326) | 1:56:A:GLN:H | 1:56:A:GLN:HG3 | 19 | 0.3 |
| (1,323) | 1:74:A:LEU:HD13 | 1:55:A:LYS:HE2 | 15 | 0.3 |
| (1,309) | 1:74:A:LEU:HD13 | 1:55:A:LYS:H | 3 | 0.3 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG12 | 10 | 0.3 |
| (1,233) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 3 | 0.3 |
| (1,199) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 12 | 0.3 |
| (1,188) | 1:30:A:ILE:HG13 | 1:34:A:GLU:HB2 | 17 | 0.3 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 3 | 0.3 |
| (1,181) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HB | 2 | 0.3 |
| (1,176) | 1:28:A:VAL:HG22 | 1:30:A:ILE:H | 20 | 0.3 |
| (1,173) | 1:28:A:VAL:HG11 | 1:29:A:ASP:H | 16 | 0.3 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 4 | 0.3 |
| (1,140) | 1:25:A:GLN:HB2 | 1:21:A:LEU:HD12 | 4 | 0.3 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 1 | 0.3 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 16 | 0.3 |
| (1,100) | 1:26:A:ARG:HG3 | 1:25:A:GLN:HG3 | 6 | 0.3 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 7 | 0.3 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 11 | 0.3 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 5 | 0.3 |
| (1,19) | 1:32:A:GLU:HG2 | 1:36:A:GLU:H | 13 | 0.3 |
| (1,9) | 1:69:A:PRO:HG3 | 1:61:A:ALA:H | 9 | 0.3 |
| (1,9) | 1:69:A:PRO:HG3 | 1:61:A:ALA:H | 16 | 0.3 |
| (1,1) | 1:21:A:LEU:HB2 | 1:18:A:VAL:H | 11 | 0.3 |
| (1,1) | 1:21:A:LEU:HB3 | 1:18:A:VAL:H | 18 | 0.3 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 19 | 0.29 |
| (1,1925) | 1:58:A:LEU:HD12 | 1:42:A:PHE:HB2 | 6 | 0.29 |
| (1,1922) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HA | 5 | 0.29 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 16 | 0.29 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 7 | 0.29 |
| (1,1870) | 1:62:A:MET:HG2 | 1:58:A:LEU:HB2 | 17 | 0.29 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 18 | 0.29 |
| (1,1751) | 1:30:A:ILE:HG23 | 1:35:A:LEU:H | 10 | 0.29 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG23 | 3 | 0.29 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG22 | 6 | 0.29 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD11 | 13 | 0.29 |
| (1,1734) | 1:35:A:LEU:HD11 | 1:91:A:PHE:HD2 | 6 | 0.29 |
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 2 | 0.29 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 12 | 0.29 |
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 18 | 0.29 |
| (1,1521) | 1:89:A:VAL:HA | 1:78:A:ILE:HG23 | 18 | 0.29 |
| (1,1511) | 1:55:A:LYS:HD2 | 1:78:A:ILE:HG23 | 1 | 0.29 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE1 | 19 | 0.29 |
| (1,1487) | 1:15:A:ILE:HA | 1:15:A:ILE:HD11 | 20 | 0.29 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 2 | 0.29 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG22 | 9 | 0.29 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG22 | 13 | 0.29 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 13 | 0.29 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 16 | 0.29 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG23 | 1 | 0.29 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG23 | 2 | 0.29 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 16 | 0.29 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD11 | 8 | 0.29 |
| (1,1337) | 1:95:A:VAL:HG13 | 1:94:A:PHE:HB3 | 8 | 0.29 |
| (1,1337) | 1:95:A:VAL:HG11 | 1:94:A:PHE:HB3 | 11 | 0.29 |
| (1,1304) | 1:28:A:VAL:HG13 | 1:27:A:PRO:HA | 1 | 0.29 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 2 | 0.29 |
| (1,1179) | 1:58:A:LEU:HD22 | 1:78:A:ILE:HA | 2 | 0.29 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 10 | 0.29 |
| (1,1169) | 1:32:A:GLU:HA | 1:31:A:PRO:HB3 | 18 | 0.29 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 4 | 0.29 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 6 | 0.29 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 18 | 0.29 |
| (1,931) | 1:72:A:VAL:HB | 1:72:A:VAL:H | 20 | 0.29 |
| (1,886) | 1:94:A:PHE:H | 1:91:A:PHE:HD1 | 16 | 0.29 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 2 | 0.29 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 14 | 0.29 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB2 | 15 | 0.29 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 18 | 0.29 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 19 | 0.29 |
| (1,623) | 1:53:A:ILE:HD11 | 1:45:A:PHE:H | 8 | 0.29 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD21 | 2 | 0.29 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD21 | 14 | 0.29 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 20 | 0.29 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG13 | 15 | 0.29 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD21 | 13 | 0.29 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 6 | 0.29 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,337) | 1:75:A:GLU:HG3 | 1:56:A:GLN:HE22 | 4 | 0.29 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG13 | 20 | 0.29 |
| (1,297) | 1:53:A:ILE:H | 1:89:A:VAL:HG12 | 9 | 0.29 |
| (1,256) | 1:53:A:ILE:HD12 | 1:43:A:LYS:HG3 | 2 | 0.29 |
| (1,223) | 1:38:A:ILE:HB | 1:98:A:LEU:HD11 | 13 | 0.29 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD23 | 20 | 0.29 |
| (1,214) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HE2 | 12 | 0.29 |
| (1,210) | 1:35:A:LEU:HD13 | 1:38:A:ILE:HB | 16 | 0.29 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 16 | 0.29 |
| (1,159) | 1:26:A:ARG:HD3 | 1:26:A:ARG:H | 9 | 0.29 |
| (1,136) | 1:20:A:ASN:HB3 | 1:23:A:SER:HB3 | 2 | 0.29 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 5 | 0.29 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 12 | 0.29 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 8 | 0.29 |
| (1,95) | 1:18:A:VAL:HA | 1:21:A:LEU:HB2 | 6 | 0.29 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 8 | 0.29 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 13 | 0.29 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 4 | 0.29 |
| (1,44) | 1:72:A:VAL:HG22 | 1:71:A:GLU:HG2 | 11 | 0.29 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 15 | 0.29 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG11 | 4 | 0.29 |
| (1,18) | 1:84:A:ASP:H | 1:93:A:GLU:HG2 | 18 | 0.29 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 6 | 0.28 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 18 | 0.28 |
| (1,1914) | 1:21:A:LEU:HD22 | 1:18:A:VAL:HB | 1 | 0.28 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 6 | 0.28 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG11 | 7 | 0.28 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 13 | 0.28 |
| (1,1704) | 1:74:A:LEU:HD23 | 1:55:A:LYS:H | 20 | 0.28 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG21 | 14 | 0.28 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 6 | 0.28 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 8 | 0.28 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 9 | 0.28 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 10 | 0.28 |
| (1,1515) | 1:89:A:VAL:H | 1:78:A:ILE:HG21 | 7 | 0.28 |
| (1,1385) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HE2 | 3 | 0.28 |
| (1,1376) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HG3 | 17 | 0.28 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG21 | 9 | 0.28 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 15 | 0.28 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 3 | 0.28 |
| (1,1180) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG3 | 15 | 0.28 |
| (1,1179) | 1:58:A:LEU:HD23 | 1:78:A:ILE:HA | 17 | 0.28 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 14 | 0.28 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD13 | 16 | 0.28 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 4 | 0.28 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 17 | 0.28 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 1 | 0.28 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 12 | 0.28 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 16 | 0.28 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD23 | 3 | 0.28 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD21 | 18 | 0.28 |
| (1,515) | 1:98:A:LEU:HD13 | 1:94:A:PHE:HA | 3 | 0.28 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 8 | 0.28 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG12 | 8 | 0.28 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG12 | 11 | 0.28 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 13 | 0.28 |
| (1,474) | 1:89:A:VAL:HG21 | 1:86:A:ASP:H | 15 | 0.28 |
| (1,466) | 1:84:A:ASP:HB3 | 1:83:A:MET:H | 18 | 0.28 |
| (1,466) | 1:84:A:ASP:HB3 | 1:83:A:MET:H | 19 | 0.28 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 13 | 0.28 |
| (1,446) | 1:80:A:ARG:HD3 | 1:80:A:ARG:HA | 6 | 0.28 |
| (1,401) | 1:72:A:VAL:HG22 | 1:75:A:GLU:HB2 | 5 | 0.28 |
| (1,371) | 1:65:A:LEU:HD12 | 1:67:A:TYR:H | 17 | 0.28 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 9 | 0.28 |
| (1,358) | 1:65:A:LEU:HD12 | 1:63:A:ARG:H | 7 | 0.28 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 5 | 0.28 |
| (1,315) | 1:74:A:LEU:HD23 | 1:55:A:LYS:HG2 | 17 | 0.28 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 10 | 0.28 |
| (1,291) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HA | 5 | 0.28 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE1 | 2 | 0.28 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 1 | 0.28 |
| (1,102) | 1:21:A:LEU:HB2 | 1:18:A:VAL:HB | 3 | 0.28 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 12 | 0.28 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD22 | 9 | 0.27 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 7 | 0.27 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 9 | 0.27 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 13 | 0.27 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG12 | 13 | 0.27 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 13 | 0.27 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG21 | 9 | 0.27 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 7 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 4 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 5 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 13 | 0.27 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 15 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 19 | 0.27 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 20 | 0.27 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG21 | 7 | 0.27 |
| (1,1485) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HZ | 7 | 0.27 |
| (1,1484) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HE1 | 17 | 0.27 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 2 | 0.27 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 19 | 0.27 |
| (1,1382) | 1:95:A:VAL:HG21 | 1:92:A:GLU:H | 18 | 0.27 |
| (1,1347) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HD2 | 6 | 0.27 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 13 | 0.27 |
| (1,1204) | 1:60:A:THR:HG22 | 1:45:A:PHE:HE1 | 9 | 0.27 |
| (1,1127) | 1:74:A:LEU:HD11 | 1:70:A:ASN:HA | 5 | 0.27 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE2 | 17 | 0.27 |
| (1,1032) | 1:53:A:ILE:HD11 | 1:46:A:ASP:HA | 15 | 0.27 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 19 | 0.27 |
| (1,794) | 1:67:A:TYR:H | 1:65:A:LEU:HD21 | 8 | 0.27 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 16 | 0.27 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB1 | 3 | 0.27 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD11 | 18 | 0.27 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD11 | 18 | 0.27 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 16 | 0.27 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 17 | 0.27 |
| (1,505) | 1:90:A:ASP:HB3 | 1:93:A:GLU:HB3 | 9 | 0.27 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 17 | 0.27 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 11 | 0.27 |
| (1,466) | 1:84:A:ASP:HB3 | 1:83:A:MET:H | 3 | 0.27 |
| (1,458) | 1:81:A:LEU:HD21 | 1:94:A:PHE:H | 7 | 0.27 |
| (1,421) | 1:76:A:VAL:HG21 | 1:77:A:ILE:HG12 | 7 | 0.27 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 20 | 0.27 |
| (1,402) | 1:74:A:LEU:HD13 | 1:73:A:GLU:H | 10 | 0.27 |
| (1,382) | 1:72:A:VAL:HB | 1:70:A:ASN:HB2 | 11 | 0.27 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 15 | 0.27 |
| (1,347) | 1:58:A:LEU:HD23 | 1:59:A:GLY:H | 12 | 0.27 |
| (1,323) | 1:74:A:LEU:HD13 | 1:55:A:LYS:HE2 | 16 | 0.27 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 7 | 0.27 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 9 | 0.27 |
| (1,256) | 1:53:A:ILE:HD13 | 1:43:A:LYS:HG3 | 11 | 0.27 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG3 | 20 | 0.27 |
| (1,137) | 1:20:A:ASN:HD21 | 1:22:A:LEU:HD22 | 20 | 0.27 |
| (1,133) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HG | 2 | 0.27 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 18 | 0.27 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,110) | 1:18:A:VAL:HA | 1:16:A:TYR:HB3 | 15 | 0.27 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 1 | 0.27 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG13 | 19 | 0.27 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 15 | 0.27 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 17 | 0.27 |
| (1,26) | 1:71:A:GLU:HG3 | 1:72:A:VAL:HG13 | 17 | 0.27 |
| (1,18) | 1:84:A:ASP:H | 1:93:A:GLU:HG2 | 6 | 0.27 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD21 | 1 | 0.26 |
| (1,1941) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG3 | 7 | 0.26 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 4 | 0.26 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 17 | 0.26 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 1 | 0.26 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 14 | 0.26 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 3 | 0.26 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 7 | 0.26 |
| (1,1772) | 1:95:A:VAL:HG13 | 1:92:A:GLU:HG3 | 17 | 0.26 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 16 | 0.26 |
| (1,1704) | 1:74:A:LEU:HD21 | 1:55:A:LYS:H | 11 | 0.26 |
| (1,1595) | 1:35:A:LEU:HD22 | 1:32:A:GLU:HA | 10 | 0.26 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG23 | 1 | 0.26 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG21 | 11 | 0.26 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 4 | 0.26 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 5 | 0.26 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 20 | 0.26 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 3 | 0.26 |
| (1,1575) | 1:53:A:ILE:HG22 | 1:52:A:PHE:HA | 11 | 0.26 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 14 | 0.26 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG21 | 4 | 0.26 |
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE2 | 5 | 0.26 |
| (1,1486) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HD1 | 18 | 0.26 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 13 | 0.26 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG23 | 3 | 0.26 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 17 | 0.26 |
| (1,1386) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HZ | 17 | 0.26 |
| (1,1381) | 1:95:A:VAL:HG23 | 1:95:A:VAL:H | 6 | 0.26 |
| (1,1379) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HG21 | 14 | 0.26 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 8 | 0.26 |
| (1,1348) | 1:53:A:ILE:HG23 | 1:58:A:LEU:HB3 | 2 | 0.26 |
| (1,1341) | 1:35:A:LEU:HD11 | 1:95:A:VAL:HG13 | 4 | 0.26 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 14 | 0.26 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG11 | 9 | 0.26 |
| (1,1175) | 1:30:A:ILE:HD11 | 1:29:A:ASP:H | 12 | 0.26 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1148) | 1:30:A:ILE:HD11 | 1:29:A:ASP:HA | 8 | 0.26 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 19 | 0.26 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 14 | 0.26 |
| (1,1068) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 1 | 0.26 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 19 | 0.26 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 13 | 0.26 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG22 | 12 | 0.26 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 5 | 0.26 |
| (1,623) | 1:53:A:ILE:HD13 | 1:45:A:PHE:H | 11 | 0.26 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 19 | 0.26 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 19 | 0.26 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG12 | 17 | 0.26 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 1 | 0.26 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG11 | 1 | 0.26 |
| (1,458) | 1:81:A:LEU:HD23 | 1:94:A:PHE:H | 19 | 0.26 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 3 | 0.26 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD11 | 6 | 0.26 |
| (1,448) | 1:80:A:ARG:HB2 | 1:81:A:LEU:HB2 | 5 | 0.26 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG11 | 8 | 0.26 |
| (1,402) | 1:74:A:LEU:HD13 | 1:73:A:GLU:H | 13 | 0.26 |
| (1,352) | 1:74:A:LEU:HD22 | 1:59:A:GLY:HA2 | 20 | 0.26 |
| (1,348) | 1:58:A:LEU:HD21 | 1:61:A:ALA:H | 10 | 0.26 |
| (1,332) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HB3 | 16 | 0.26 |
| (1,327) | 1:74:A:LEU:HD22 | 1:56:A:GLN:H | 16 | 0.26 |
| (1,310) | 1:58:A:LEU:HD22 | 1:55:A:LYS:HA | 8 | 0.26 |
| (1,299) | 1:53:A:ILE:HD12 | 1:89:A:VAL:HG13 | 12 | 0.26 |
| (1,297) | 1:89:A:VAL:HG23 | 1:53:A:ILE:H | 8 | 0.26 |
| (1,297) | 1:89:A:VAL:HG23 | 1:53:A:ILE:H | 15 | 0.26 |
| (1,293) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HB3 | 7 | 0.26 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 12 | 0.26 |
| (1,225) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG21 | 10 | 0.26 |
| (1,214) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HE1 | 6 | 0.26 |
| (1,189) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HG13 | 4 | 0.26 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 20 | 0.26 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 19 | 0.26 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 11 | 0.26 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG2 | 8 | 0.26 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 10 | 0.26 |
| (1,111) | 1:16:A:TYR:HB3 | 1:18:A:VAL:HG11 | 15 | 0.26 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 2 | 0.26 |
| (1,95) | 1:18:A:VAL:HA | 1:21:A:LEU:HB2 | 12 | 0.26 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 14 | 0.26 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 18 | 0.26 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 9 | 0.26 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 7 | 0.26 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 1 | 0.26 |
| (1,1942) | 1:58:A:LEU:HD21 | 1:62:A:MET:HG2 | 5 | 0.25 |
| (1,1942) | 1:58:A:LEU:HD23 | 1:62:A:MET:HG2 | 15 | 0.25 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 16 | 0.25 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 16 | 0.25 |
| (1,1923) | 1:98:A:LEU:HD11 | 1:38:A:ILE:HG21 | 13 | 0.25 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 1 | 0.25 |
| (1,1789) | 1:89:A:VAL:HG22 | 1:53:A:ILE:HD13 | 8 | 0.25 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG12 | 18 | 0.25 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB3 | 8 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG22 | 19 | 0.25 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG21 | 20 | 0.25 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 15 | 0.25 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 1 | 0.25 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 16 | 0.25 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 6 | 0.25 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 16 | 0.25 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 8 | 0.25 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD12 | 2 | 0.25 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 17 | 0.25 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 5 | 0.25 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 16 | 0.25 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 20 | 0.25 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 4 | 0.25 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 12 | 0.25 |
| (1,1089) | 1:53:A:ILE:HG22 | 1:46:A:ASP:H | 5 | 0.25 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 1 | 0.25 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 7 | 0.25 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 10 | 0.25 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 17 | 0.25 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 5 | 0.25 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD12 | 19 | 0.25 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG21 | 19 | 0.25 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG23 | 20 | 0.25 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG12 | 5 | 0.25 |
| (1,402) | 1:74:A:LEU:HD12 | 1:73:A:GLU:H | 2 | 0.25 |
| (1,389) | 1:72:A:VAL:HG13 | 1:70:A:ASN:HD21 | 9 | 0.25 |
| (1,389) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD21 | 12 | 0.25 |
| (1,382) | 1:72:A:VAL:HB | 1:70:A:ASN:HB2 | 16 | 0.25 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,378) | 1:74:A:LEU:HD23 | 1:70:A:ASN:HA | 14 | 0.25 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 3 | 0.25 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 5 | 0.25 |
| (1,352) | 1:74:A:LEU:HD23 | 1:59:A:GLY:HA2 | 18 | 0.25 |
| (1,332) | 1:74:A:LEU:HD21 | 1:56:A:GLN:HB3 | 18 | 0.25 |
| (1,327) | 1:74:A:LEU:HD22 | 1:56:A:GLN:H | 5 | 0.25 |
| (1,310) | 1:58:A:LEU:HD11 | 1:55:A:LYS:HA | 17 | 0.25 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 7 | 0.25 |
| (1,237) | 1:39:A:ARG:HA | 1:43:A:LYS:HG2 | 8 | 0.25 |
| (1,211) | 1:35:A:LEU:HD12 | 1:39:A:ARG:H | 13 | 0.25 |
| (1,206) | 1:35:A:LEU:HA | 1:35:A:LEU:HD23 | 6 | 0.25 |
| (1,202) | 1:34:A:GLU:HG3 | 1:35:A:LEU:HA | 11 | 0.25 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG2 | 3 | 0.25 |
| (1,133) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HG | 10 | 0.25 |
| (1,121) | 1:20:A:ASN:HB3 | 1:19:A:PRO:HB3 | 4 | 0.25 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 15 | 0.25 |
| (1,95) | 1:18:A:VAL:HA | 1:21:A:LEU:HB2 | 5 | 0.25 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 12 | 0.25 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 3 | 0.25 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 7 | 0.25 |
| (1,1929) | 1:58:A:LEU:HD13 | 1:45:A:PHE:HB2 | 13 | 0.24 |
| (1,1926) | 1:58:A:LEU:HD11 | 1:42:A:PHE:HB3 | 7 | 0.24 |
| (1,1922) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HA | 11 | 0.24 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG21 | 3 | 0.24 |
| (1,1900) | 1:58:A:LEU:HD13 | 1:42:A:PHE:HZ | 16 | 0.24 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 9 | 0.24 |
| (1,1808) | 1:64:A:SER:HB3 | 1:60:A:THR:HG22 | 9 | 0.24 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 4 | 0.24 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG13 | 8 | 0.24 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG13 | 16 | 0.24 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 14 | 0.24 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 13 | 0.24 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB3 | 19 | 0.24 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB2 | 20 | 0.24 |
| (1,1575) | 1:53:A:ILE:HG23 | 1:52:A:PHE:HA | 7 | 0.24 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG21 | 6 | 0.24 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 12 | 0.24 |
| (1,1463) | 1:78:A:ILE:HD12 | 1:55:A:LYS:HG2 | 5 | 0.24 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG23 | 15 | 0.24 |
| (1,1403) | 1:77:A:ILE:HG22 | 1:78:A:ILE:HG12 | 3 | 0.24 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 11 | 0.24 |
| (1,1366) | 1:44:A:VAL:HG11 | 1:43:A:LYS:HE2 | 1 | 0.24 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1348) | 1:53:A:ILE:HG22 | 1:58:A:LEU:HB3 | 12 | 0.24 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD13 | 6 | 0.24 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 1 | 0.24 |
| (1,1004) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HD22 | 6 | 0.24 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG23 | 20 | 0.24 |
| (1,931) | 1:72:A:VAL:HB | 1:72:A:VAL:H | 10 | 0.24 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG22 | 4 | 0.24 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 3 | 0.24 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG23 | 5 | 0.24 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD22 | 7 | 0.24 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 14 | 0.24 |
| (1,472) | 1:89:A:VAL:HG21 | 1:85:A:GLY:H | 1 | 0.24 |
| (1,468) | 1:84:A:ASP:HB3 | 1:83:A:MET:HB2 | 2 | 0.24 |
| (1,457) | 1:89:A:VAL:HG22 | 1:81:A:LEU:HD21 | 1 | 0.24 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD12 | 5 | 0.24 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 9 | 0.24 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG12 | 19 | 0.24 |
| (1,398) | 1:76:A:VAL:HG13 | 1:72:A:VAL:HA | 6 | 0.24 |
| (1,363) | 1:64:A:SER:HA | 1:63:A:ARG:HD2 | 19 | 0.24 |
| (1,347) | 1:58:A:LEU:HD23 | 1:59:A:GLY:H | 19 | 0.24 |
| (1,334) | 1:74:A:LEU:HD13 | 1:56:A:GLN:HG3 | 3 | 0.24 |
| (1,323) | 1:74:A:LEU:HD13 | 1:55:A:LYS:HE2 | 20 | 0.24 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 8 | 0.24 |
| (1,309) | 1:74:A:LEU:HD11 | 1:55:A:LYS:H | 1 | 0.24 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD13 | 3 | 0.24 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 13 | 0.24 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 12 | 0.24 |
| (1,256) | 1:53:A:ILE:HD12 | 1:43:A:LYS:HG3 | 10 | 0.24 |
| (1,256) | 1:53:A:ILE:HD11 | 1:43:A:LYS:HG3 | 16 | 0.24 |
| (1,213) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 3 | 0.24 |
| (1,189) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HG13 | 2 | 0.24 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 7 | 0.24 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 10 | 0.24 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 12 | 0.24 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 20 | 0.24 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG21 | 9 | 0.24 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 2 | 0.24 |
| (1,1950) | 1:81:A:LEU:HD23 | 1:94:A:PHE:HD1 | 10 | 0.23 |
| (1,1935) | 1:58:A:LEU:HD12 | 1:58:A:LEU:HA | 14 | 0.23 |
| (1,1933) | 1:54:A:SER:HB2 | 1:57:A:GLU:H | 20 | 0.23 |
| (1,1911) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA3 | 17 | 0.23 |
| (1,1901) | 1:58:A:LEU:HD22 | 1:42:A:PHE:HZ | 13 | 0.23 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1772) | 1:95:A:VAL:HG11 | 1:92:A:GLU:HG3 | 12 | 0.23 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 11 | 0.23 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG21 | 1 | 0.23 |
| (1,1736) | 1:41:A:ALA:HB1 | 1:38:A:ILE:HG23 | 15 | 0.23 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD12 | 11 | 0.23 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD13 | 12 | 0.23 |
| (1,1719) | 1:69:A:PRO:HA | 1:77:A:ILE:HD12 | 13 | 0.23 |
| (1,1671) | 1:61:A:ALA:HA | 1:42:A:PHE:HD1 | 7 | 0.23 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD22 | 13 | 0.23 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 13 | 0.23 |
| (1,1492) | 1:15:A:ILE:HD12 | 1:16:A:TYR:HE2 | 10 | 0.23 |
| (1,1463) | 1:78:A:ILE:HD13 | 1:55:A:LYS:HG2 | 18 | 0.23 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 3 | 0.23 |
| (1,1383) | 1:96:A:THR:H | 1:95:A:VAL:HG21 | 6 | 0.23 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 19 | 0.23 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 19 | 0.23 |
| (1,1359) | 1:82:A:ASP:H | 1:78:A:ILE:HD13 | 8 | 0.23 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 4 | 0.23 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 18 | 0.23 |
| (1,1204) | 1:60:A:THR:HG23 | 1:45:A:PHE:HE1 | 17 | 0.23 |
| (1,1094) | 1:53:A:ILE:HG21 | 1:45:A:PHE:HD2 | 2 | 0.23 |
| (1,1094) | 1:53:A:ILE:HG23 | 1:45:A:PHE:HD2 | 16 | 0.23 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 19 | 0.23 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 12 | 0.23 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 3 | 0.23 |
| (1,515) | 1:98:A:LEU:HD12 | 1:94:A:PHE:HA | 18 | 0.23 |
| (1,515) | 1:98:A:LEU:HD12 | 1:94:A:PHE:HA | 19 | 0.23 |
| (1,508) | 1:98:A:LEU:HD22 | 1:91:A:PHE:HE1 | 16 | 0.23 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 4 | 0.23 |
| (1,479) | 1:89:A:VAL:HG23 | 1:88:A:GLN:H | 19 | 0.23 |
| (1,468) | 1:84:A:ASP:HB3 | 1:83:A:MET:HB2 | 1 | 0.23 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG12 | 11 | 0.23 |
| (1,421) | 1:76:A:VAL:HG21 | 1:77:A:ILE:HG12 | 3 | 0.23 |
| (1,399) | 1:72:A:VAL:HG22 | 1:73:A:GLU:H | 17 | 0.23 |
| (1,389) | 1:72:A:VAL:HG22 | 1:70:A:ASN:HD21 | 7 | 0.23 |
| (1,367) | 1:65:A:LEU:HD23 | 1:65:A:LEU:H | 5 | 0.23 |
| (1,363) | 1:64:A:SER:HA | 1:63:A:ARG:HD2 | 7 | 0.23 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD11 | 9 | 0.23 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD11 | 16 | 0.23 |
| (1,332) | 1:74:A:LEU:HD21 | 1:56:A:GLN:HB3 | 14 | 0.23 |
| (1,326) | 1:56:A:GLN:H | 1:56:A:GLN:HG3 | 2 | 0.23 |
| (1,324) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HG2 | 18 | 0.23 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,192) | 1:35:A:LEU:HD12 | 1:32:A:GLU:HA | 14 | 0.23 |
| (1,172) | 1:29:A:ASP:HB2 | 1:28:A:VAL:HB | 5 | 0.23 |
| (1,75) | 1:74:A:LEU:HB2 | 1:75:A:GLU:HB2 | 3 | 0.23 |
| (1,75) | 1:74:A:LEU:HB2 | 1:75:A:GLU:HB2 | 17 | 0.23 |
| (1,74) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HB3 | 16 | 0.23 |
| (1,36) | 1:87:A:GLY:HA3 | 1:55:A:LYS:HE2 | 9 | 0.23 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 13 | 0.23 |
| (1,4) | 1:24:A:GLU:H | 1:22:A:LEU:HB2 | 17 | 0.23 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD21 | 15 | 0.22 |
| (1,1943) | 1:58:A:LEU:HD23 | 1:78:A:ILE:H | 9 | 0.22 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 18 | 0.22 |
| (1,1915) | 1:19:A:PRO:HA | 1:21:A:LEU:HD22 | 20 | 0.22 |
| (1,1886) | 1:42:A:PHE:HB2 | 1:94:A:PHE:HD2 | 13 | 0.22 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 9 | 0.22 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 5 | 0.22 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 5 | 0.22 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 6 | 0.22 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 12 | 0.22 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 17 | 0.22 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 19 | 0.22 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 3 | 0.22 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 18 | 0.22 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG22 | 9 | 0.22 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 12 | 0.22 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 11 | 0.22 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 15 | 0.22 |
| (1,1575) | 1:53:A:ILE:HG21 | 1:52:A:PHE:HA | 17 | 0.22 |
| (1,1558) | 1:54:A:SER:HB3 | 1:88:A:GLN:HG3 | 10 | 0.22 |
| (1,1511) | 1:55:A:LYS:HD2 | 1:78:A:ILE:HG23 | 12 | 0.22 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG23 | 8 | 0.22 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 11 | 0.22 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG23 | 7 | 0.22 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG23 | 1 | 0.22 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 15 | 0.22 |
| (1,1314) | 1:62:A:MET:HG2 | 1:77:A:ILE:HD11 | 7 | 0.22 |
| (1,1292) | 1:58:A:LEU:HD12 | 1:61:A:ALA:HB2 | 14 | 0.22 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 5 | 0.22 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 9 | 0.22 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 2 | 0.22 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG13 | 3 | 0.22 |
| (1,1175) | 1:30:A:ILE:HD13 | 1:29:A:ASP:H | 15 | 0.22 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG21 | 4 | 0.22 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1156) | 1:42:A:PHE:HZ | 1:62:A:MET:HG3 | 1 | 0.22 |
| (1,1068) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 18 | 0.22 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG23 | 15 | 0.22 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 6 | 0.22 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG21 | 7 | 0.22 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 5 | 0.22 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD11 | 13 | 0.22 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 15 | 0.22 |
| (1,685) | 1:53:A:ILE:HD12 | 1:54:A:SER:H | 8 | 0.22 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 4 | 0.22 |
| (1,555) | 1:70:A:ASN:HD21 | 1:69:A:PRO:HA | 18 | 0.22 |
| (1,529) | 1:97:A:LEU:HD11 | 1:98:A:LEU:H | 9 | 0.22 |
| (1,515) | 1:98:A:LEU:HD12 | 1:94:A:PHE:HA | 7 | 0.22 |
| (1,515) | 1:98:A:LEU:HD13 | 1:94:A:PHE:HA | 16 | 0.22 |
| (1,510) | 1:97:A:LEU:HD12 | 1:93:A:GLU:HA | 19 | 0.22 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 11 | 0.22 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 17 | 0.22 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 20 | 0.22 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 18 | 0.22 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG13 | 2 | 0.22 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 7 | 0.22 |
| (1,468) | 1:84:A:ASP:HB3 | 1:83:A:MET:HB2 | 16 | 0.22 |
| (1,451) | 1:89:A:VAL:HG21 | 1:81:A:LEU:H | 11 | 0.22 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 15 | 0.22 |
| (1,417) | 1:76:A:VAL:HB | 1:79:A:GLN:HG3 | 18 | 0.22 |
| (1,399) | 1:72:A:VAL:HG11 | 1:73:A:GLU:H | 2 | 0.22 |
| (1,374) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HE1 | 7 | 0.22 |
| (1,371) | 1:65:A:LEU:HD11 | 1:67:A:TYR:H | 20 | 0.22 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 14 | 0.22 |
| (1,350) | 1:58:A:LEU:HD13 | 1:78:A:ILE:HG13 | 5 | 0.22 |
| (1,345) | 1:58:A:LEU:HD12 | 1:58:A:LEU:H | 4 | 0.22 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD11 | 18 | 0.22 |
| (1,282) | 1:57:A:GLU:HB3 | 1:47:A:ARG:HD2 | 14 | 0.22 |
| (1,188) | 1:30:A:ILE:HG13 | 1:34:A:GLU:HB2 | 4 | 0.22 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 19 | 0.22 |
| (1,181) | 1:34:A:GLU:HG3 | 1:30:A:ILE:HB | 4 | 0.22 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 11 | 0.22 |
| (1,139) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 9 | 0.22 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG13 | 20 | 0.22 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 7 | 0.22 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 7 | 0.22 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 2 | 0.22 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 18 | 0.22 |
| (1,10) | 1:69:A:PRO:HG3 | 1:62:A:MET:H | 9 | 0.22 |
| (1,1952) | 1:94:A:PHE:HE2 | 1:98:A:LEU:HD12 | 13 | 0.21 |
| (1,1923) | 1:98:A:LEU:HD12 | 1:38:A:ILE:HG21 | 5 | 0.21 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 18 | 0.21 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 9 | 0.21 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG13 | 9 | 0.21 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 4 | 0.21 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB3 | 14 | 0.21 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB3 | 14 | 0.21 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 10 | 0.21 |
| (1,1689) | 1:88:A:GLN:HG2 | 1:52:A:PHE:HD2 | 2 | 0.21 |
| (1,1668) | 1:61:A:ALA:HA | 1:63:A:ARG:HG3 | 19 | 0.21 |
| (1,1619) | 1:98:A:LEU:HD11 | 1:95:A:VAL:HA | 13 | 0.21 |
| (1,1591) | 1:35:A:LEU:HA | 1:38:A:ILE:HG23 | 6 | 0.21 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 12 | 0.21 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 15 | 0.21 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG23 | 20 | 0.21 |
| (1,1485) | 1:38:A:ILE:HD12 | 1:91:A:PHE:HZ | 17 | 0.21 |
| (1,1463) | 1:78:A:ILE:HD12 | 1:55:A:LYS:HG2 | 3 | 0.21 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 16 | 0.21 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 2 | 0.21 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 8 | 0.21 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG22 | 19 | 0.21 |
| (1,1373) | 1:92:A:GLU:HA | 1:95:A:VAL:HG23 | 11 | 0.21 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 15 | 0.21 |
| (1,1271) | 1:55:A:LYS:HB2 | 1:78:A:ILE:HD12 | 1 | 0.21 |
| (1,1256) | 1:62:A:MET:HA | 1:67:A:TYR:HB3 | 7 | 0.21 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 19 | 0.21 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 8 | 0.21 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 9 | 0.21 |
| (1,1146) | 1:20:A:ASN:HA | 1:19:A:PRO:HB3 | 5 | 0.21 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 8 | 0.21 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 13 | 0.21 |
| (1,1034) | 1:53:A:ILE:HD12 | 1:39:A:ARG:HA | 7 | 0.21 |
| (1,961) | 1:73:A:GLU:H | 1:73:A:GLU:HG3 | 17 | 0.21 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 5 | 0.21 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD13 | 5 | 0.21 |
| (1,685) | 1:53:A:ILE:HD13 | 1:54:A:SER:H | 7 | 0.21 |
| (1,685) | 1:53:A:ILE:HD12 | 1:54:A:SER:H | 16 | 0.21 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 19 | 0.21 |
| (1,659) | 1:53:A:ILE:HG21 | 1:52:A:PHE:H | 8 | 0.21 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,623) | 1:53:A:ILE:HD11 | 1:45:A:PHE:H | 16 | 0.21 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 17 | 0.21 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 3 | 0.21 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 19 | 0.21 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 8 | 0.21 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG12 | 13 | 0.21 |
| (1,386) | 1:70:A:ASN:HB3 | 1:73:A:GLU:HB3 | 17 | 0.21 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 12 | 0.21 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 12 | 0.21 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 18 | 0.21 |
| (1,352) | 1:74:A:LEU:HD22 | 1:59:A:GLY:HA2 | 13 | 0.21 |
| (1,347) | 1:58:A:LEU:HD11 | 1:59:A:GLY:H | 8 | 0.21 |
| (1,249) | 1:41:A:ALA:HB1 | 1:98:A:LEU:HD13 | 3 | 0.21 |
| (1,245) | 1:39:A:ARG:HG3 | 1:91:A:PHE:HZ | 7 | 0.21 |
| (1,206) | 1:35:A:LEU:HA | 1:35:A:LEU:HD21 | 2 | 0.21 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 14 | 0.21 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG21 | 2 | 0.21 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG23 | 8 | 0.21 |
| (1,183) | 1:33:A:ASP:HB3 | 1:30:A:ILE:HG21 | 9 | 0.21 |
| (1,166) | 1:28:A:VAL:HG22 | 1:26:A:ARG:HD3 | 14 | 0.21 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 20 | 0.21 |
| (1,152) | 1:24:A:GLU:HA | 1:24:A:GLU:HG2 | 4 | 0.21 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG11 | 16 | 0.21 |
| (1,94) | 1:71:A:GLU:HB3 | 1:70:A:ASN:HB2 | 6 | 0.21 |
| (1,85) | 1:26:A:ARG:HG2 | 1:26:A:ARG:H | 1 | 0.21 |
| (1,75) | 1:74:A:LEU:HB2 | 1:75:A:GLU:HB2 | 19 | 0.21 |
| (1,42) | 1:43:A:LYS:HD2 | 1:43:A:LYS:H | 12 | 0.21 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 5 | 0.21 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 16 | 0.21 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD22 | 8 | 0.2 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 20 | 0.2 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB3 | 2 | 0.2 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 20 | 0.2 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 18 | 0.2 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 20 | 0.2 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 6 | 0.2 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB2 | 11 | 0.2 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 16 | 0.2 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 19 | 0.2 |
| (1,1671) | 1:61:A:ALA:HA | 1:42:A:PHE:HD1 | 3 | 0.2 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD22 | 9 | 0.2 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD23 | 11 | 0.2 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1492) | 1:15:A:ILE:HD13 | 1:16:A:TYR:HE2 | 8 | 0.2 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 10 | 0.2 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 14 | 0.2 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG23 | 20 | 0.2 |
| (1,1404) | 1:79:A:GLN:H | 1:77:A:ILE:HG21 | 8 | 0.2 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 14 | 0.2 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG22 | 10 | 0.2 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 2 | 0.2 |
| (1,1366) | 1:44:A:VAL:HG11 | 1:43:A:LYS:HE2 | 8 | 0.2 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 9 | 0.2 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD13 | 16 | 0.2 |
| (1,1353) | 1:78:A:ILE:HD11 | 1:89:A:VAL:HB | 2 | 0.2 |
| (1,1342) | 1:95:A:VAL:HG12 | 1:39:A:ARG:H | 20 | 0.2 |
| (1,1337) | 1:95:A:VAL:HG12 | 1:94:A:PHE:HB3 | 19 | 0.2 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 12 | 0.2 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 3 | 0.2 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 15 | 0.2 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 20 | 0.2 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 20 | 0.2 |
| (1,1123) | 1:21:A:LEU:H | 1:21:A:LEU:HD21 | 14 | 0.2 |
| (1,1089) | 1:53:A:ILE:HG23 | 1:46:A:ASP:H | 1 | 0.2 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 16 | 0.2 |
| (1,1068) | 1:21:A:LEU:HD12 | 1:21:A:LEU:HA | 14 | 0.2 |
| (1,1032) | 1:53:A:ILE:HD11 | 1:46:A:ASP:HA | 5 | 0.2 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 9 | 0.2 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 16 | 0.2 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG23 | 13 | 0.2 |
| (1,770) | 1:64:A:SER:H | 1:61:A:ALA:HB2 | 7 | 0.2 |
| (1,748) | 1:58:A:LEU:HD21 | 1:61:A:ALA:H | 7 | 0.2 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 4 | 0.2 |
| (1,623) | 1:53:A:ILE:HD13 | 1:45:A:PHE:H | 12 | 0.2 |
| (1,601) | 1:43:A:LYS:H | 1:43:A:LYS:HE2 | 20 | 0.2 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG21 | 4 | 0.2 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 6 | 0.2 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 12 | 0.2 |
| (1,497) | 1:89:A:VAL:HG13 | 1:95:A:VAL:H | 12 | 0.2 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 13 | 0.2 |
| (1,479) | 1:89:A:VAL:HG22 | 1:88:A:GLN:H | 20 | 0.2 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 14 | 0.2 |
| (1,451) | 1:89:A:VAL:HG23 | 1:81:A:LEU:H | 7 | 0.2 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG11 | 1 | 0.2 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 3 | 0.2 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG12 | 15 | 0.2 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 18 | 0.2 |
| (1,363) | 1:63:A:ARG:HD3 | 1:64:A:SER:HA | 11 | 0.2 |
| (1,327) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 13 | 0.2 |
| (1,327) | 1:74:A:LEU:HD12 | 1:56:A:GLN:H | 18 | 0.2 |
| (1,307) | 1:54:A:SER:HB3 | 1:78:A:ILE:HD13 | 15 | 0.2 |
| (1,256) | 1:53:A:ILE:HD12 | 1:43:A:LYS:HG3 | 20 | 0.2 |
| (1,216) | 1:35:A:LEU:HD21 | 1:95:A:VAL:HA | 4 | 0.2 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 1 | 0.2 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 10 | 0.2 |
| (1,159) | 1:26:A:ARG:HD2 | 1:26:A:ARG:H | 14 | 0.2 |
| (1,108) | 1:15:A:ILE:HD11 | 1:16:A:TYR:HB2 | 16 | 0.2 |
| (1,96) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HG3 | 20 | 0.2 |
| (1,42) | 1:43:A:LYS:HD2 | 1:43:A:LYS:H | 4 | 0.2 |
| (1,1948) | 1:80:A:ARG:HA | 1:81:A:LEU:HD13 | 2 | 0.19 |
| (1,1899) | 1:42:A:PHE:HZ | 1:61:A:ALA:HB3 | 3 | 0.19 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 5 | 0.19 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 12 | 0.19 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 2 | 0.19 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 16 | 0.19 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG11 | 14 | 0.19 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG21 | 8 | 0.19 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG23 | 12 | 0.19 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 3 | 0.19 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG23 | 14 | 0.19 |
| (1,1481) | 1:38:A:ILE:HD11 | 1:35:A:LEU:H | 19 | 0.19 |
| (1,1455) | 1:60:A:THR:HG22 | 1:45:A:PHE:HB3 | 10 | 0.19 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG23 | 12 | 0.19 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 13 | 0.19 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 16 | 0.19 |
| (1,1381) | 1:95:A:VAL:HG22 | 1:95:A:VAL:H | 1 | 0.19 |
| (1,1381) | 1:95:A:VAL:HG22 | 1:95:A:VAL:H | 2 | 0.19 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 5 | 0.19 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 16 | 0.19 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD12 | 6 | 0.19 |
| (1,1337) | 1:95:A:VAL:HG13 | 1:94:A:PHE:HB3 | 15 | 0.19 |
| (1,1310) | 1:74:A:LEU:HB2 | 1:78:A:ILE:HD13 | 3 | 0.19 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 1 | 0.19 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 7 | 0.19 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 15 | 0.19 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 13 | 0.19 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 16 | 0.19 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1204) | 1:60:A:THR:HG22 | 1:45:A:PHE:HE1 | 2 | 0.19 |
| (1,1204) | 1:60:A:THR:HG23 | 1:45:A:PHE:HE1 | 5 | 0.19 |
| (1,1184) | 1:31:A:PRO:HG3 | 1:30:A:ILE:HG22 | 11 | 0.19 |
| (1,1175) | 1:30:A:ILE:HD12 | 1:29:A:ASP:H | 2 | 0.19 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 13 | 0.19 |
| (1,1149) | 1:29:A:ASP:HA | 1:30:A:ILE:H | 4 | 0.19 |
| (1,1113) | 1:16:A:TYR:HA | 1:16:A:TYR:HE1 | 14 | 0.19 |
| (1,1094) | 1:53:A:ILE:HG23 | 1:45:A:PHE:HD2 | 12 | 0.19 |
| (1,1089) | 1:53:A:ILE:HG22 | 1:46:A:ASP:H | 2 | 0.19 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 5 | 0.19 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 19 | 0.19 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 12 | 0.19 |
| (1,870) | 1:88:A:GLN:HB2 | 1:89:A:VAL:H | 3 | 0.19 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG22 | 6 | 0.19 |
| (1,531) | 1:98:A:LEU:H | 1:98:A:LEU:HD21 | 16 | 0.19 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 9 | 0.19 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 7 | 0.19 |
| (1,491) | 1:89:A:VAL:HG12 | 1:93:A:GLU:H | 1 | 0.19 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG13 | 20 | 0.19 |
| (1,425) | 1:76:A:VAL:HG23 | 1:80:A:ARG:HG2 | 2 | 0.19 |
| (1,417) | 1:76:A:VAL:HB | 1:79:A:GLN:HG3 | 3 | 0.19 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 18 | 0.19 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 15 | 0.19 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 17 | 0.19 |
| (1,349) | 1:58:A:LEU:HD12 | 1:61:A:ALA:HB2 | 6 | 0.19 |
| (1,310) | 1:58:A:LEU:HD11 | 1:55:A:LYS:HA | 2 | 0.19 |
| (1,307) | 1:54:A:SER:HB2 | 1:78:A:ILE:HD12 | 11 | 0.19 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 17 | 0.19 |
| (1,256) | 1:53:A:ILE:HD13 | 1:43:A:LYS:HG3 | 3 | 0.19 |
| (1,208) | 1:36:A:GLU:HB2 | 1:35:A:LEU:HB3 | 12 | 0.19 |
| (1,186) | 1:30:A:ILE:HG13 | 1:31:A:PRO:HD2 | 1 | 0.19 |
| (1,186) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD2 | 17 | 0.19 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 9 | 0.19 |
| (1,176) | 1:28:A:VAL:HG12 | 1:30:A:ILE:H | 13 | 0.19 |
| (1,172) | 1:29:A:ASP:HB3 | 1:28:A:VAL:HB | 1 | 0.19 |
| (1,138) | 1:22:A:LEU:HD12 | 1:21:A:LEU:H | 14 | 0.19 |
| (1,136) | 1:20:A:ASN:HB3 | 1:23:A:SER:HB3 | 11 | 0.19 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 3 | 0.19 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 9 | 0.19 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 20 | 0.19 |
| (1,100) | 1:26:A:ARG:HG3 | 1:25:A:GLN:HG3 | 1 | 0.19 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG12 | 10 | 0.19 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 10 | 0.19 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 18 | 0.18 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG21 | 14 | 0.18 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 17 | 0.18 |
| (1,1808) | 1:64:A:SER:HB3 | 1:60:A:THR:HG22 | 8 | 0.18 |
| (1,1789) | 1:89:A:VAL:HG23 | 1:53:A:ILE:HD11 | 9 | 0.18 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 11 | 0.18 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 14 | 0.18 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG13 | 2 | 0.18 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB2 | 2 | 0.18 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB2 | 7 | 0.18 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 9 | 0.18 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 7 | 0.18 |
| (1,1607) | 1:64:A:SER:HB2 | 1:61:A:ALA:HB1 | 6 | 0.18 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD21 | 3 | 0.18 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD22 | 20 | 0.18 |
| (1,1593) | 1:95:A:VAL:HG12 | 1:35:A:LEU:HD23 | 13 | 0.18 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 5 | 0.18 |
| (1,1484) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HE1 | 4 | 0.18 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 10 | 0.18 |
| (1,1463) | 1:78:A:ILE:HD13 | 1:55:A:LYS:HG2 | 7 | 0.18 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 4 | 0.18 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 5 | 0.18 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 17 | 0.18 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 11 | 0.18 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 7 | 0.18 |
| (1,1387) | 1:95:A:VAL:HG23 | 1:91:A:PHE:HD2 | 3 | 0.18 |
| (1,1385) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HE2 | 12 | 0.18 |
| (1,1366) | 1:44:A:VAL:HG11 | 1:43:A:LYS:HE2 | 11 | 0.18 |
| (1,1364) | 1:88:A:GLN:HA | 1:78:A:ILE:HD11 | 13 | 0.18 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 1 | 0.18 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 11 | 0.18 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 12 | 0.18 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 19 | 0.18 |
| (1,1212) | 1:25:A:GLN:HA | 1:26:A:ARG:H | 7 | 0.18 |
| (1,1182) | 1:58:A:LEU:HD21 | 1:61:A:ALA:HB2 | 4 | 0.18 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 18 | 0.18 |
| (1,1094) | 1:53:A:ILE:HG23 | 1:45:A:PHE:HD2 | 3 | 0.18 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 12 | 0.18 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 6 | 0.18 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 19 | 0.18 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 17 | 0.18 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 3 | 0.18 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD11 | 20 | 0.18 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 6 | 0.18 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 7 | 0.18 |
| (1,573) | 1:30:A:ILE:HG22 | 1:30:A:ILE:H | 12 | 0.18 |
| (1,550) | 1:18:A:VAL:HG11 | 1:18:A:VAL:H | 12 | 0.18 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 3 | 0.18 |
| (1,515) | 1:98:A:LEU:HD13 | 1:94:A:PHE:HA | 17 | 0.18 |
| (1,479) | 1:89:A:VAL:HG21 | 1:88:A:GLN:H | 3 | 0.18 |
| (1,425) | 1:76:A:VAL:HG23 | 1:80:A:ARG:HG2 | 13 | 0.18 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 7 | 0.18 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 16 | 0.18 |
| (1,374) | 1:65:A:LEU:HD11 | 1:67:A:TYR:HE2 | 4 | 0.18 |
| (1,374) | 1:65:A:LEU:HD13 | 1:67:A:TYR:HE2 | 14 | 0.18 |
| (1,370) | 1:65:A:LEU:HD22 | 1:66:A:GLY:H | 1 | 0.18 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 16 | 0.18 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 20 | 0.18 |
| (1,365) | 1:64:A:SER:HA | 1:65:A:LEU:HD23 | 5 | 0.18 |
| (1,345) | 1:58:A:LEU:HD12 | 1:58:A:LEU:H | 9 | 0.18 |
| (1,345) | 1:58:A:LEU:HD13 | 1:58:A:LEU:H | 10 | 0.18 |
| (1,335) | 1:56:A:GLN:HE22 | 1:71:A:GLU:HA | 17 | 0.18 |
| (1,318) | 1:55:A:LYS:HD2 | 1:75:A:GLU:HB3 | 18 | 0.18 |
| (1,241) | 1:39:A:ARG:HG2 | 1:43:A:LYS:HD2 | 1 | 0.18 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE2 | 16 | 0.18 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD21 | 15 | 0.18 |
| (1,179) | 1:34:A:GLU:HB2 | 1:30:A:ILE:H | 13 | 0.18 |
| (1,179) | 1:34:A:GLU:HB3 | 1:30:A:ILE:H | 15 | 0.18 |
| (1,165) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 7 | 0.18 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 20 | 0.18 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 6 | 0.18 |
| (1,42) | 1:43:A:LYS:HD2 | 1:43:A:LYS:H | 15 | 0.18 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 1 | 0.18 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 11 | 0.18 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 6 | 0.17 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 7 | 0.17 |
| (1,1932) | 1:56:A:GLN:H | 1:54:A:SER:HB2 | 10 | 0.17 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 8 | 0.17 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 3 | 0.17 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG23 | 14 | 0.17 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 8 | 0.17 |
| (1,1735) | 1:99:A:GLY:HA2 | 1:38:A:ILE:HD13 | 15 | 0.17 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 4 | 0.17 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 8 | 0.17 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 2 | 0.17 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 18 | 0.17 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG23 | 17 | 0.17 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG22 | 1 | 0.17 |
| (1,1455) | 1:60:A:THR:HG22 | 1:45:A:PHE:HB3 | 8 | 0.17 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 1 | 0.17 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 9 | 0.17 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG23 | 15 | 0.17 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 19 | 0.17 |
| (1,1381) | 1:95:A:VAL:HG21 | 1:95:A:VAL:H | 19 | 0.17 |
| (1,1337) | 1:95:A:VAL:HG11 | 1:94:A:PHE:HB3 | 1 | 0.17 |
| (1,1318) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HD12 | 7 | 0.17 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 11 | 0.17 |
| (1,1270) | 1:55:A:LYS:HB3 | 1:78:A:ILE:HD11 | 7 | 0.17 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 4 | 0.17 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 17 | 0.17 |
| (1,1094) | 1:53:A:ILE:HG23 | 1:45:A:PHE:HD2 | 20 | 0.17 |
| (1,1046) | 1:53:A:ILE:HD12 | 1:89:A:VAL:H | 3 | 0.17 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 11 | 0.17 |
| (1,976) | 1:53:A:ILE:HD12 | 1:46:A:ASP:H | 7 | 0.17 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 4 | 0.17 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 5 | 0.17 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 14 | 0.17 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 20 | 0.17 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD13 | 1 | 0.17 |
| (1,767) | 1:63:A:ARG:H | 1:61:A:ALA:HB3 | 16 | 0.17 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG22 | 17 | 0.17 |
| (1,573) | 1:30:A:ILE:HG22 | 1:30:A:ILE:H | 16 | 0.17 |
| (1,539) | 1:15:A:ILE:HD13 | 1:14:A:GLY:H | 1 | 0.17 |
| (1,512) | 1:94:A:PHE:H | 1:98:A:LEU:HD23 | 1 | 0.17 |
| (1,497) | 1:89:A:VAL:HG11 | 1:95:A:VAL:H | 16 | 0.17 |
| (1,494) | 1:89:A:VAL:HG12 | 1:94:A:PHE:HA | 19 | 0.17 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG11 | 8 | 0.17 |
| (1,448) | 1:80:A:ARG:HB2 | 1:81:A:LEU:HB2 | 14 | 0.17 |
| (1,427) | 1:80:A:ARG:HD3 | 1:77:A:ILE:HA | 11 | 0.17 |
| (1,417) | 1:76:A:VAL:HB | 1:79:A:GLN:HG3 | 7 | 0.17 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 14 | 0.17 |
| (1,389) | 1:72:A:VAL:HG11 | 1:70:A:ASN:HD21 | 15 | 0.17 |
| (1,389) | 1:72:A:VAL:HG21 | 1:70:A:ASN:HD21 | 19 | 0.17 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 3 | 0.17 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 13 | 0.17 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,345) | 1:58:A:LEU:HD12 | 1:58:A:LEU:H | 6 | 0.17 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 8 | 0.17 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 10 | 0.17 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD22 | 14 | 0.17 |
| (1,191) | 1:35:A:LEU:HD11 | 1:32:A:GLU:H | 10 | 0.17 |
| (1,188) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HG13 | 5 | 0.17 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 6 | 0.17 |
| (1,180) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HB | 5 | 0.17 |
| (1,180) | 1:34:A:GLU:HB2 | 1:30:A:ILE:HB | 11 | 0.17 |
| (1,164) | 1:28:A:VAL:HG12 | 1:26:A:ARG:HB2 | 19 | 0.17 |
| (1,139) | 1:21:A:LEU:HD23 | 1:21:A:LEU:HA | 13 | 0.17 |
| (1,134) | 1:22:A:LEU:HD13 | 1:20:A:ASN:HB2 | 17 | 0.17 |
| (1,120) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HA | 12 | 0.17 |
| (1,120) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HA | 15 | 0.17 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 6 | 0.17 |
| (1,1953) | 1:99:A:GLY:H | 1:98:A:LEU:HD21 | 4 | 0.16 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 4 | 0.16 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 17 | 0.16 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 1 | 0.16 |
| (1,1774) | 1:92:A:GLU:HG2 | 1:93:A:GLU:H | 15 | 0.16 |
| (1,1747) | 1:30:A:ILE:HG22 | 1:31:A:PRO:HD3 | 11 | 0.16 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 1 | 0.16 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 5 | 0.16 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 18 | 0.16 |
| (1,1689) | 1:88:A:GLN:HG2 | 1:52:A:PHE:HD2 | 8 | 0.16 |
| (1,1668) | 1:61:A:ALA:HA | 1:63:A:ARG:HG3 | 20 | 0.16 |
| (1,1619) | 1:98:A:LEU:HD13 | 1:95:A:VAL:HA | 2 | 0.16 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 19 | 0.16 |
| (1,1600) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 16 | 0.16 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 15 | 0.16 |
| (1,1492) | 1:15:A:ILE:HD12 | 1:16:A:TYR:HE2 | 3 | 0.16 |
| (1,1484) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HE1 | 20 | 0.16 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 8 | 0.16 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 17 | 0.16 |
| (1,1384) | 1:98:A:LEU:H | 1:95:A:VAL:HG23 | 7 | 0.16 |
| (1,1381) | 1:95:A:VAL:HG21 | 1:95:A:VAL:H | 16 | 0.16 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD11 | 2 | 0.16 |
| (1,1348) | 1:53:A:ILE:HG23 | 1:58:A:LEU:HB3 | 18 | 0.16 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 5 | 0.16 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 6 | 0.16 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 18 | 0.16 |
| (1,1212) | 1:25:A:GLN:HA | 1:26:A:ARG:H | 18 | 0.16 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1204) | 1:60:A:THR:HG23 | 1:45:A:PHE:HE1 | 12 | 0.16 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 6 | 0.16 |
| (1,1094) | 1:53:A:ILE:HG21 | 1:45:A:PHE:HD2 | 11 | 0.16 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG22 | 13 | 0.16 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 6 | 0.16 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 15 | 0.16 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 17 | 0.16 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG23 | 17 | 0.16 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD11 | 7 | 0.16 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG23 | 3 | 0.16 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 14 | 0.16 |
| (1,573) | 1:30:A:ILE:HG21 | 1:30:A:ILE:H | 19 | 0.16 |
| (1,569) | 1:28:A:VAL:HG21 | 1:29:A:ASP:H | 1 | 0.16 |
| (1,508) | 1:98:A:LEU:HD22 | 1:91:A:PHE:HE1 | 18 | 0.16 |
| (1,505) | 1:90:A:ASP:HB3 | 1:93:A:GLU:HB3 | 8 | 0.16 |
| (1,491) | 1:89:A:VAL:HG11 | 1:93:A:GLU:H | 16 | 0.16 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 3 | 0.16 |
| (1,487) | 1:90:A:ASP:HB2 | 1:89:A:VAL:HG11 | 7 | 0.16 |
| (1,458) | 1:81:A:LEU:HD22 | 1:94:A:PHE:H | 12 | 0.16 |
| (1,451) | 1:89:A:VAL:HG23 | 1:81:A:LEU:H | 16 | 0.16 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD12 | 12 | 0.16 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 2 | 0.16 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG12 | 4 | 0.16 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG11 | 10 | 0.16 |
| (1,402) | 1:74:A:LEU:HD12 | 1:73:A:GLU:H | 6 | 0.16 |
| (1,402) | 1:74:A:LEU:HD11 | 1:73:A:GLU:H | 15 | 0.16 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 19 | 0.16 |
| (1,356) | 1:61:A:ALA:HA | 1:65:A:LEU:HD23 | 7 | 0.16 |
| (1,349) | 1:58:A:LEU:HD13 | 1:61:A:ALA:HB1 | 10 | 0.16 |
| (1,327) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 12 | 0.16 |
| (1,233) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD11 | 19 | 0.16 |
| (1,230) | 1:39:A:ARG:HG3 | 1:38:A:ILE:HD13 | 12 | 0.16 |
| (1,210) | 1:35:A:LEU:HD13 | 1:38:A:ILE:HB | 15 | 0.16 |
| (1,205) | 1:35:A:LEU:HD13 | 1:35:A:LEU:H | 5 | 0.16 |
| (1,197) | 1:33:A:ASP:HB3 | 1:34:A:GLU:HG2 | 12 | 0.16 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD21 | 20 | 0.16 |
| (1,186) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD2 | 4 | 0.16 |
| (1,180) | 1:34:A:GLU:HB2 | 1:30:A:ILE:HB | 17 | 0.16 |
| (1,122) | 1:20:A:ASN:HD22 | 1:19:A:PRO:HB3 | 20 | 0.16 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG13 | 18 | 0.16 |
| (1,87) | 1:80:A:ARG:HG2 | 1:78:A:ILE:HA | 13 | 0.16 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 2 | 0.16 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 19 | 0.16 |
| (1,4) | 1:24:A:GLU:H | 1:22:A:LEU:HB2 | 4 | 0.16 |
| (2,20) | 1:43:A:LYS:N | 1:39:A:ARG:O | 14 | 0.15 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 19 | 0.15 |
| (1,1922) | 1:98:A:LEU:HD13 | 1:38:A:ILE:HA | 12 | 0.15 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG21 | 16 | 0.15 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 17 | 0.15 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 20 | 0.15 |
| (1,1888) | 1:42:A:PHE:HD2 | 1:61:A:ALA:HB2 | 17 | 0.15 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 13 | 0.15 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 19 | 0.15 |
| (1,1758) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD2 | 16 | 0.15 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 15 | 0.15 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 7 | 0.15 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 17 | 0.15 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 15 | 0.15 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD22 | 12 | 0.15 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 8 | 0.15 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 17 | 0.15 |
| (1,1505) | 1:87:A:GLY:HA3 | 1:78:A:ILE:HG22 | 19 | 0.15 |
| (1,1455) | 1:60:A:THR:HG22 | 1:45:A:PHE:HB3 | 3 | 0.15 |
| (1,1433) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 9 | 0.15 |
| (1,1408) | 1:98:A:LEU:HD23 | 1:95:A:VAL:HA | 13 | 0.15 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG22 | 7 | 0.15 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG21 | 6 | 0.15 |
| (1,1403) | 1:77:A:ILE:HG23 | 1:78:A:ILE:HG12 | 7 | 0.15 |
| (1,1395) | 1:74:A:LEU:HA | 1:77:A:ILE:HG23 | 1 | 0.15 |
| (1,1386) | 1:95:A:VAL:HG22 | 1:91:A:PHE:HZ | 5 | 0.15 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 3 | 0.15 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 19 | 0.15 |
| (1,1318) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HD12 | 18 | 0.15 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 8 | 0.15 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 10 | 0.15 |
| (1,1201) | 1:89:A:VAL:HG13 | 1:89:A:VAL:H | 2 | 0.15 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG12 | 18 | 0.15 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 4 | 0.15 |
| (1,1089) | 1:53:A:ILE:HG21 | 1:46:A:ASP:H | 6 | 0.15 |
| (1,1088) | 1:59:A:GLY:H | 1:53:A:ILE:HG22 | 12 | 0.15 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 12 | 0.15 |
| (1,1032) | 1:53:A:ILE:HD12 | 1:46:A:ASP:HA | 17 | 0.15 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG22 | 9 | 0.15 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 9 | 0.15 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 13 | 0.15 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 19 | 0.15 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 18 | 0.15 |
| (1,864) | 1:88:A:GLN:H | 1:78:A:ILE:HG23 | 1 | 0.15 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 13 | 0.15 |
| (1,648) | 1:50:A:ASN:H | 1:52:A:PHE:HE2 | 8 | 0.15 |
| (1,573) | 1:30:A:ILE:HG21 | 1:30:A:ILE:H | 2 | 0.15 |
| (1,573) | 1:30:A:ILE:HG23 | 1:30:A:ILE:H | 6 | 0.15 |
| (1,573) | 1:30:A:ILE:HG23 | 1:30:A:ILE:H | 14 | 0.15 |
| (1,573) | 1:30:A:ILE:HG21 | 1:30:A:ILE:H | 17 | 0.15 |
| (1,536) | 1:99:A:GLY:HA3 | 1:98:A:LEU:HD21 | 10 | 0.15 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 17 | 0.15 |
| (1,469) | 1:83:A:MET:HG2 | 1:89:A:VAL:HG13 | 19 | 0.15 |
| (1,427) | 1:80:A:ARG:HD3 | 1:77:A:ILE:HA | 9 | 0.15 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG13 | 19 | 0.15 |
| (1,414) | 1:75:A:GLU:HG3 | 1:76:A:VAL:HG13 | 12 | 0.15 |
| (1,371) | 1:65:A:LEU:HD12 | 1:67:A:TYR:H | 1 | 0.15 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 6 | 0.15 |
| (1,370) | 1:65:A:LEU:HD22 | 1:66:A:GLY:H | 9 | 0.15 |
| (1,355) | 1:63:A:ARG:HD3 | 1:60:A:THR:HG22 | 7 | 0.15 |
| (1,345) | 1:58:A:LEU:HD11 | 1:58:A:LEU:H | 7 | 0.15 |
| (1,345) | 1:58:A:LEU:HD11 | 1:58:A:LEU:H | 19 | 0.15 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD12 | 13 | 0.15 |
| (1,278) | 1:47:A:ARG:HG2 | 1:57:A:GLU:HG2 | 19 | 0.15 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD3 | 16 | 0.15 |
| (1,256) | 1:53:A:ILE:HD13 | 1:43:A:LYS:HG3 | 1 | 0.15 |
| (1,246) | 1:39:A:ARG:HG3 | 1:95:A:VAL:HG12 | 18 | 0.15 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD22 | 12 | 0.15 |
| (1,183) | 1:33:A:ASP:HB2 | 1:30:A:ILE:HG21 | 13 | 0.15 |
| (1,139) | 1:21:A:LEU:HD13 | 1:21:A:LEU:HA | 12 | 0.15 |
| (1,119) | 1:18:A:VAL:HG22 | 1:21:A:LEU:HB2 | 11 | 0.15 |
| (1,109) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 9 | 0.15 |
| (1,76) | 1:55:A:LYS:HE3 | 1:75:A:GLU:HA | 15 | 0.15 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG23 | 17 | 0.15 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 14 | 0.15 |
| (1,26) | 1:72:A:VAL:HG13 | 1:71:A:GLU:HG2 | 1 | 0.15 |
| (1,18) | 1:84:A:ASP:H | 1:93:A:GLU:HG2 | 12 | 0.15 |
| (1,1) | 1:21:A:LEU:HB3 | 1:18:A:VAL:H | 15 | 0.15 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 13 | 0.14 |
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 14 | 0.14 |
| (1,1940) | 1:58:A:LEU:HD22 | 1:62:A:MET:HB2 | 3 | 0.14 |
| (1,1918) | 1:22:A:LEU:HD11 | 1:23:A:SER:HB3 | 7 | 0.14 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1901) | 1:58:A:LEU:HD22 | 1:42:A:PHE:HZ | 12 | 0.14 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 4 | 0.14 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 4 | 0.14 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG11 | 3 | 0.14 |
| (1,1762) | 1:73:A:GLU:HA | 1:76:A:VAL:HG12 | 15 | 0.14 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB3 | 16 | 0.14 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG22 | 11 | 0.14 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 9 | 0.14 |
| (1,1619) | 1:98:A:LEU:HD13 | 1:95:A:VAL:HA | 3 | 0.14 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 14 | 0.14 |
| (1,1619) | 1:98:A:LEU:HD13 | 1:95:A:VAL:HA | 16 | 0.14 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 3 | 0.14 |
| (1,1600) | 1:35:A:LEU:HD22 | 1:91:A:PHE:HD2 | 5 | 0.14 |
| (1,1594) | 1:35:A:LEU:HA | 1:35:A:LEU:HD21 | 8 | 0.14 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 13 | 0.14 |
| (1,1522) | 1:88:A:GLN:HA | 1:78:A:ILE:HG21 | 7 | 0.14 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG23 | 6 | 0.14 |
| (1,1520) | 1:81:A:LEU:H | 1:78:A:ILE:HG23 | 9 | 0.14 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 2 | 0.14 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 7 | 0.14 |
| (1,1474) | 1:99:A:GLY:HA3 | 1:38:A:ILE:HD12 | 20 | 0.14 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG23 | 20 | 0.14 |
| (1,1381) | 1:95:A:VAL:HG21 | 1:95:A:VAL:H | 8 | 0.14 |
| (1,1377) | 1:95:A:VAL:HG23 | 1:92:A:GLU:HB2 | 18 | 0.14 |
| (1,1372) | 1:96:A:THR:HA | 1:95:A:VAL:HG23 | 2 | 0.14 |
| (1,1350) | 1:82:A:ASP:HA | 1:78:A:ILE:HD11 | 13 | 0.14 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 7 | 0.14 |
| (1,1212) | 1:25:A:GLN:HA | 1:26:A:ARG:H | 1 | 0.14 |
| (1,1157) | 1:42:A:PHE:HE2 | 1:62:A:MET:HG3 | 6 | 0.14 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 8 | 0.14 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 15 | 0.14 |
| (1,1055) | 1:34:A:GLU:HG3 | 1:34:A:GLU:H | 20 | 0.14 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 11 | 0.14 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 1 | 0.14 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 11 | 0.14 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 16 | 0.14 |
| (1,883) | 1:94:A:PHE:H | 1:91:A:PHE:HE1 | 16 | 0.14 |
| (1,870) | 1:88:A:GLN:HB2 | 1:89:A:VAL:H | 19 | 0.14 |
| (1,648) | 1:50:A:ASN:H | 1:52:A:PHE:HE2 | 13 | 0.14 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 18 | 0.14 |
| (1,623) | 1:53:A:ILE:HD12 | 1:45:A:PHE:H | 19 | 0.14 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 18 | 0.14 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,573) | 1:30:A:ILE:HG22 | 1:30:A:ILE:H | 20 | 0.14 |
| (1,538) | 1:14:A:GLY:H | 1:15:A:ILE:HG21 | 6 | 0.14 |
| (1,515) | 1:98:A:LEU:HD12 | 1:94:A:PHE:HA | 6 | 0.14 |
| (1,503) | 1:90:A:ASP:HB3 | 1:92:A:GLU:HG2 | 1 | 0.14 |
| (1,475) | 1:87:A:GLY:HA2 | 1:86:A:ASP:HB2 | 9 | 0.14 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 9 | 0.14 |
| (1,448) | 1:80:A:ARG:HB2 | 1:81:A:LEU:HB2 | 15 | 0.14 |
| (1,371) | 1:65:A:LEU:HD12 | 1:67:A:TYR:H | 16 | 0.14 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 7 | 0.14 |
| (1,343) | 1:57:A:GLU:HB2 | 1:78:A:ILE:HD13 | 6 | 0.14 |
| (1,310) | 1:58:A:LEU:HD11 | 1:55:A:LYS:HA | 18 | 0.14 |
| (1,299) | 1:53:A:ILE:HD11 | 1:89:A:VAL:HG11 | 2 | 0.14 |
| (1,297) | 1:89:A:VAL:HG23 | 1:53:A:ILE:H | 14 | 0.14 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 14 | 0.14 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 1 | 0.14 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 2 | 0.14 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 5 | 0.14 |
| (1,229) | 1:39:A:ARG:HD3 | 1:38:A:ILE:HG13 | 18 | 0.14 |
| (1,193) | 1:32:A:GLU:HB2 | 1:35:A:LEU:HD21 | 11 | 0.14 |
| (1,180) | 1:34:A:GLU:HB2 | 1:30:A:ILE:HB | 4 | 0.14 |
| (1,180) | 1:34:A:GLU:HB3 | 1:30:A:ILE:HB | 8 | 0.14 |
| (1,157) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HG3 | 8 | 0.14 |
| (1,136) | 1:20:A:ASN:HB2 | 1:23:A:SER:HB2 | 5 | 0.14 |
| (1,134) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HD23 | 10 | 0.14 |
| (1,133) | 1:20:A:ASN:HB3 | 1:22:A:LEU:HG | 15 | 0.14 |
| (1,127) | 1:19:A:PRO:HD2 | 1:21:A:LEU:HD22 | 20 | 0.14 |
| (1,98) | 1:80:A:ARG:HG3 | 1:76:A:VAL:HG11 | 6 | 0.14 |
| (1,66) | 1:78:A:ILE:H | 1:80:A:ARG:HG2 | 7 | 0.14 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 10 | 0.14 |
| (1,29) | 1:75:A:GLU:HG3 | 1:55:A:LYS:HE3 | 16 | 0.14 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 1 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 2 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 6 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 16 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 17 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 18 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 20 | 0.13 |
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 16 | 0.13 |
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 17 | 0.13 |
| (1,1938) | 1:58:A:LEU:HD21 | 1:59:A:GLY:HA3 | 14 | 0.13 |
| (1,1910) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA2 | 6 | 0.13 |
| (1,1909) | 1:15:A:ILE:HA | 1:16:A:TYR:HE2 | 16 | 0.13 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1907) | 1:95:A:VAL:HG13 | 1:91:A:PHE:HZ | 16 | 0.13 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 1 | 0.13 |
| (1,1906) | 1:91:A:PHE:HZ | 1:38:A:ILE:HG23 | 13 | 0.13 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 2 | 0.13 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 7 | 0.13 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 13 | 0.13 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 1 | 0.13 |
| (1,1808) | 1:64:A:SER:HB3 | 1:60:A:THR:HG23 | 5 | 0.13 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG23 | 6 | 0.13 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG21 | 9 | 0.13 |
| (1,1799) | 1:95:A:VAL:H | 1:38:A:ILE:HG23 | 20 | 0.13 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG22 | 7 | 0.13 |
| (1,1797) | 1:43:A:LYS:HE2 | 1:38:A:ILE:HG22 | 20 | 0.13 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 8 | 0.13 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 12 | 0.13 |
| (1,1777) | 1:92:A:GLU:HG3 | 1:91:A:PHE:HE2 | 17 | 0.13 |
| (1,1759) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HD3 | 20 | 0.13 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 5 | 0.13 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 2 | 0.13 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 11 | 0.13 |
| (1,1718) | 1:69:A:PRO:HA | 1:73:A:GLU:HG2 | 16 | 0.13 |
| (1,1704) | 1:74:A:LEU:HD22 | 1:55:A:LYS:H | 15 | 0.13 |
| (1,1668) | 1:61:A:ALA:HA | 1:63:A:ARG:HG3 | 6 | 0.13 |
| (1,1654) | 1:74:A:LEU:HA | 1:77:A:ILE:HD11 | 10 | 0.13 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 19 | 0.13 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 10 | 0.13 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 13 | 0.13 |
| (1,1559) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HB2 | 8 | 0.13 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG21 | 19 | 0.13 |
| (1,1514) | 1:87:A:GLY:H | 1:78:A:ILE:HG23 | 17 | 0.13 |
| (1,1407) | 1:81:A:LEU:H | 1:77:A:ILE:HG23 | 18 | 0.13 |
| (1,1405) | 1:77:A:ILE:H | 1:77:A:ILE:HG22 | 3 | 0.13 |
| (1,1404) | 1:79:A:GLN:H | 1:77:A:ILE:HG21 | 2 | 0.13 |
| (1,1403) | 1:77:A:ILE:HG23 | 1:78:A:ILE:HG12 | 20 | 0.13 |
| (1,1398) | 1:77:A:ILE:HG21 | 1:62:A:MET:HB3 | 12 | 0.13 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG21 | 15 | 0.13 |
| (1,1353) | 1:78:A:ILE:HD13 | 1:89:A:VAL:HB | 16 | 0.13 |
| (1,1346) | 1:95:A:VAL:HG13 | 1:91:A:PHE:HE2 | 9 | 0.13 |
| (1,1277) | 1:79:A:GLN:HB2 | 1:76:A:VAL:HA | 14 | 0.13 |
| (1,1253) | 1:67:A:TYR:HB3 | 1:65:A:LEU:HB2 | 6 | 0.13 |
| (1,1231) | 1:31:A:PRO:HB2 | 1:30:A:ILE:HA | 14 | 0.13 |
| (1,1088) | 1:59:A:GLY:H | 1:53:A:ILE:HG22 | 8 | 0.13 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD11 | 20 | 0.13 |
| (1,959) | 1:78:A:ILE:H | 1:77:A:ILE:HG21 | 5 | 0.13 |
| (1,844) | 1:78:A:ILE:HG22 | 1:85:A:GLY:H | 12 | 0.13 |
| (1,652) | 1:52:A:PHE:HD2 | 1:51:A:GLY:H | 16 | 0.13 |
| (1,648) | 1:50:A:ASN:H | 1:52:A:PHE:HE2 | 17 | 0.13 |
| (1,623) | 1:53:A:ILE:HD13 | 1:45:A:PHE:H | 13 | 0.13 |
| (1,593) | 1:41:A:ALA:H | 1:38:A:ILE:HG23 | 2 | 0.13 |
| (1,576) | 1:32:A:GLU:H | 1:31:A:PRO:HB3 | 10 | 0.13 |
| (1,573) | 1:30:A:ILE:HG22 | 1:30:A:ILE:H | 4 | 0.13 |
| (1,550) | 1:18:A:VAL:HG13 | 1:18:A:VAL:H | 5 | 0.13 |
| (1,510) | 1:97:A:LEU:HD13 | 1:93:A:GLU:HA | 12 | 0.13 |
| (1,510) | 1:97:A:LEU:HD11 | 1:93:A:GLU:HA | 20 | 0.13 |
| (1,508) | 1:98:A:LEU:HD23 | 1:91:A:PHE:HE1 | 6 | 0.13 |
| (1,505) | 1:90:A:ASP:HB2 | 1:93:A:GLU:HB2 | 10 | 0.13 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 1 | 0.13 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 8 | 0.13 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG13 | 12 | 0.13 |
| (1,479) | 1:89:A:VAL:HG21 | 1:88:A:GLN:H | 12 | 0.13 |
| (1,470) | 1:97:A:LEU:HD11 | 1:83:A:MET:HG2 | 12 | 0.13 |
| (1,425) | 1:76:A:VAL:HG22 | 1:80:A:ARG:HG2 | 11 | 0.13 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG11 | 12 | 0.13 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG12 | 14 | 0.13 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 9 | 0.13 |
| (1,370) | 1:65:A:LEU:HD23 | 1:66:A:GLY:H | 2 | 0.13 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 10 | 0.13 |
| (1,334) | 1:74:A:LEU:HD22 | 1:56:A:GLN:HG2 | 15 | 0.13 |
| (1,327) | 1:74:A:LEU:HD23 | 1:56:A:GLN:H | 4 | 0.13 |
| (1,277) | 1:57:A:GLU:HB3 | 1:47:A:ARG:HG2 | 19 | 0.13 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD23 | 5 | 0.13 |
| (1,216) | 1:35:A:LEU:HD13 | 1:95:A:VAL:HA | 9 | 0.13 |
| (1,212) | 1:39:A:ARG:HD3 | 1:35:A:LEU:HD23 | 7 | 0.13 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 16 | 0.13 |
| (1,180) | 1:34:A:GLU:HB2 | 1:30:A:ILE:HB | 13 | 0.13 |
| (1,155) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HA | 16 | 0.13 |
| (1,84) | 1:27:A:PRO:HD3 | 1:26:A:ARG:HG2 | 16 | 0.13 |
| (1,60) | 1:80:A:ARG:HG3 | 1:77:A:ILE:HG21 | 14 | 0.13 |
| (1,42) | 1:43:A:LYS:HD2 | 1:43:A:LYS:H | 8 | 0.13 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 3 | 0.13 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 8 | 0.12 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 9 | 0.12 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 10 | 0.12 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 11 | 0.12 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 12 | 0.12 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 14 | 0.12 |
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 19 | 0.12 |
| (1,1951) | 1:94:A:PHE:H | 1:89:A:VAL:HG12 | 4 | 0.12 |
| (1,1951) | 1:94:A:PHE:H | 1:89:A:VAL:HG13 | 5 | 0.12 |
| (1,1940) | 1:58:A:LEU:HD23 | 1:62:A:MET:HB2 | 1 | 0.12 |
| (1,1901) | 1:58:A:LEU:HD21 | 1:42:A:PHE:HZ | 4 | 0.12 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 3 | 0.12 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 9 | 0.12 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 12 | 0.12 |
| (1,1883) | 1:95:A:VAL:HA | 1:91:A:PHE:HD1 | 14 | 0.12 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 8 | 0.12 |
| (1,1760) | 1:26:A:ARG:HB2 | 1:27:A:PRO:HD3 | 12 | 0.12 |
| (1,1726) | 1:18:A:VAL:HA | 1:19:A:PRO:HB2 | 15 | 0.12 |
| (1,1689) | 1:88:A:GLN:HG2 | 1:52:A:PHE:HD2 | 15 | 0.12 |
| (1,1600) | 1:35:A:LEU:HD21 | 1:91:A:PHE:HD2 | 17 | 0.12 |
| (1,1585) | 1:88:A:GLN:HG3 | 1:54:A:SER:HA | 18 | 0.12 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 14 | 0.12 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 6 | 0.12 |
| (1,1554) | 1:96:A:THR:HG22 | 1:97:A:LEU:HG | 7 | 0.12 |
| (1,1531) | 1:78:A:ILE:HG12 | 1:58:A:LEU:HB2 | 9 | 0.12 |
| (1,1481) | 1:38:A:ILE:HD12 | 1:35:A:LEU:H | 15 | 0.12 |
| (1,1406) | 1:80:A:ARG:H | 1:77:A:ILE:HG21 | 17 | 0.12 |
| (1,1401) | 1:74:A:LEU:HB2 | 1:77:A:ILE:HG21 | 6 | 0.12 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 5 | 0.12 |
| (1,1381) | 1:95:A:VAL:HG22 | 1:95:A:VAL:H | 9 | 0.12 |
| (1,1381) | 1:95:A:VAL:HG21 | 1:95:A:VAL:H | 15 | 0.12 |
| (1,1353) | 1:78:A:ILE:HD12 | 1:89:A:VAL:HB | 7 | 0.12 |
| (1,1346) | 1:95:A:VAL:HG11 | 1:91:A:PHE:HE2 | 15 | 0.12 |
| (1,1212) | 1:25:A:GLN:HA | 1:26:A:ARG:H | 16 | 0.12 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG12 | 12 | 0.12 |
| (1,1201) | 1:89:A:VAL:HG13 | 1:89:A:VAL:H | 20 | 0.12 |
| (1,1160) | 1:16:A:TYR:HA | 1:18:A:VAL:HG23 | 3 | 0.12 |
| (1,1150) | 1:62:A:MET:HG3 | 1:58:A:LEU:HB2 | 9 | 0.12 |
| (1,1094) | 1:53:A:ILE:HG22 | 1:45:A:PHE:HD2 | 13 | 0.12 |
| (1,1089) | 1:53:A:ILE:HG22 | 1:46:A:ASP:H | 15 | 0.12 |
| (1,1046) | 1:53:A:ILE:HD11 | 1:89:A:VAL:H | 6 | 0.12 |
| (1,1036) | 1:91:A:PHE:HA | 1:53:A:ILE:HD12 | 11 | 0.12 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 2 | 0.12 |
| (1,923) | 1:96:A:THR:H | 1:38:A:ILE:HG21 | 14 | 0.12 |
| (1,901) | 1:99:A:GLY:H | 1:38:A:ILE:HD11 | 2 | 0.12 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD11 | 9 | 0.12 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD12 | 13 | 0.12 |
| (1,698) | 1:55:A:LYS:H | 1:78:A:ILE:HD11 | 10 | 0.12 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG21 | 10 | 0.12 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG21 | 15 | 0.12 |
| (1,573) | 1:30:A:ILE:HG23 | 1:30:A:ILE:H | 10 | 0.12 |
| (1,569) | 1:28:A:VAL:HG23 | 1:29:A:ASP:H | 16 | 0.12 |
| (1,521) | 1:98:A:LEU:HB3 | 1:95:A:VAL:HG13 | 1 | 0.12 |
| (1,520) | 1:98:A:LEU:HD23 | 1:95:A:VAL:HA | 19 | 0.12 |
| (1,505) | 1:90:A:ASP:HB3 | 1:93:A:GLU:HB3 | 14 | 0.12 |
| (1,497) | 1:89:A:VAL:HG12 | 1:95:A:VAL:H | 9 | 0.12 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 18 | 0.12 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 1 | 0.12 |
| (1,466) | 1:84:A:ASP:HB3 | 1:83:A:MET:H | 12 | 0.12 |
| (1,449) | 1:80:A:ARG:HG3 | 1:81:A:LEU:HD13 | 12 | 0.12 |
| (1,448) | 1:80:A:ARG:HB2 | 1:81:A:LEU:HB2 | 17 | 0.12 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG12 | 10 | 0.12 |
| (1,402) | 1:74:A:LEU:HD11 | 1:73:A:GLU:H | 20 | 0.12 |
| (1,389) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD21 | 14 | 0.12 |
| (1,376) | 1:72:A:VAL:HG21 | 1:70:A:ASN:H | 11 | 0.12 |
| (1,370) | 1:65:A:LEU:HD22 | 1:66:A:GLY:H | 4 | 0.12 |
| (1,370) | 1:65:A:LEU:HD21 | 1:66:A:GLY:H | 8 | 0.12 |
| (1,297) | 1:89:A:VAL:HG21 | 1:53:A:ILE:H | 12 | 0.12 |
| (1,278) | 1:47:A:ARG:HG2 | 1:57:A:GLU:HG2 | 14 | 0.12 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 9 | 0.12 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG3 | 10 | 0.12 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 19 | 0.12 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD21 | 9 | 0.12 |
| (1,208) | 1:36:A:GLU:HB2 | 1:35:A:LEU:HB3 | 19 | 0.12 |
| (1,197) | 1:33:A:ASP:HB2 | 1:34:A:GLU:HG2 | 15 | 0.12 |
| (1,192) | 1:35:A:LEU:HD11 | 1:32:A:GLU:HA | 10 | 0.12 |
| (1,187) | 1:30:A:ILE:HG12 | 1:31:A:PRO:HD3 | 12 | 0.12 |
| (1,173) | 1:28:A:VAL:HG13 | 1:29:A:ASP:H | 6 | 0.12 |
| (1,155) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HA | 18 | 0.12 |
| (1,153) | 1:25:A:GLN:HB2 | 1:25:A:GLN:H | 6 | 0.12 |
| (1,126) | 1:19:A:PRO:HD3 | 1:21:A:LEU:HB2 | 3 | 0.12 |
| (1,119) | 1:18:A:VAL:HG12 | 1:21:A:LEU:HB2 | 6 | 0.12 |
| (1,101) | 1:83:A:MET:HA | 1:93:A:GLU:HG2 | 17 | 0.12 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG13 | 4 | 0.12 |
| (1,66) | 1:78:A:ILE:H | 1:80:A:ARG:HG2 | 14 | 0.12 |
| (1,49) | 1:69:A:PRO:HB2 | 1:59:A:GLY:HA3 | 17 | 0.12 |
| (1,19) | 1:32:A:GLU:HG3 | 1:36:A:GLU:H | 2 | 0.12 |
| (1,1) | 1:21:A:LEU:HB3 | 1:18:A:VAL:H | 1 | 0.12 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 3 | 0.11 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 7 | 0.11 |
| (1,1919) | 1:34:A:GLU:HG2 | 1:35:A:LEU:H | 1 | 0.11 |
| (1,1911) | 1:67:A:TYR:HE2 | 1:66:A:GLY:HA3 | 18 | 0.11 |
| (1,1909) | 1:15:A:ILE:HA | 1:16:A:TYR:HE1 | 20 | 0.11 |
| (1,1894) | 1:95:A:VAL:HA | 1:91:A:PHE:HE1 | 5 | 0.11 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 3 | 0.11 |
| (1,1850) | 1:62:A:MET:HB2 | 1:59:A:GLY:HA3 | 10 | 0.11 |
| (1,1841) | 1:73:A:GLU:HG3 | 1:70:A:ASN:HD21 | 6 | 0.11 |
| (1,1765) | 1:77:A:ILE:H | 1:76:A:VAL:HG13 | 8 | 0.11 |
| (1,1742) | 1:94:A:PHE:HE2 | 1:41:A:ALA:HB1 | 17 | 0.11 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 3 | 0.11 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 4 | 0.11 |
| (1,1619) | 1:98:A:LEU:HD12 | 1:95:A:VAL:HA | 6 | 0.11 |
| (1,1609) | 1:26:A:ARG:HB3 | 1:27:A:PRO:HD3 | 4 | 0.11 |
| (1,1600) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HD2 | 9 | 0.11 |
| (1,1583) | 1:87:A:GLY:HA2 | 1:88:A:GLN:HG2 | 6 | 0.11 |
| (1,1562) | 1:88:A:GLN:HG3 | 1:52:A:PHE:HD2 | 1 | 0.11 |
| (1,1519) | 1:80:A:ARG:H | 1:78:A:ILE:HG22 | 3 | 0.11 |
| (1,1484) | 1:38:A:ILE:HD11 | 1:91:A:PHE:HE1 | 3 | 0.11 |
| (1,1481) | 1:38:A:ILE:HD13 | 1:35:A:LEU:H | 18 | 0.11 |
| (1,1463) | 1:78:A:ILE:HD11 | 1:55:A:LYS:HG2 | 4 | 0.11 |
| (1,1433) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 3 | 0.11 |
| (1,1433) | 1:34:A:GLU:HG2 | 1:34:A:GLU:H | 16 | 0.11 |
| (1,1403) | 1:77:A:ILE:HG21 | 1:78:A:ILE:HG12 | 5 | 0.11 |
| (1,1397) | 1:62:A:MET:HB2 | 1:77:A:ILE:HG22 | 4 | 0.11 |
| (1,1387) | 1:95:A:VAL:HG21 | 1:91:A:PHE:HD2 | 14 | 0.11 |
| (1,1384) | 1:98:A:LEU:H | 1:95:A:VAL:HG23 | 9 | 0.11 |
| (1,1363) | 1:89:A:VAL:HA | 1:78:A:ILE:HD11 | 20 | 0.11 |
| (1,1201) | 1:89:A:VAL:HG12 | 1:89:A:VAL:H | 1 | 0.11 |
| (1,1201) | 1:89:A:VAL:HG11 | 1:89:A:VAL:H | 3 | 0.11 |
| (1,1187) | 1:27:A:PRO:HG2 | 1:28:A:VAL:H | 20 | 0.11 |
| (1,1182) | 1:58:A:LEU:HD22 | 1:61:A:ALA:HB2 | 6 | 0.11 |
| (1,1161) | 1:16:A:TYR:HA | 1:18:A:VAL:HG13 | 1 | 0.11 |
| (1,1095) | 1:92:A:GLU:HA | 1:95:A:VAL:HB | 4 | 0.11 |
| (1,1095) | 1:92:A:GLU:HA | 1:95:A:VAL:HB | 5 | 0.11 |
| (1,1095) | 1:92:A:GLU:HA | 1:95:A:VAL:HB | 13 | 0.11 |
| (1,1032) | 1:53:A:ILE:HD13 | 1:46:A:ASP:HA | 12 | 0.11 |
| (1,852) | 1:86:A:ASP:H | 1:78:A:ILE:HG21 | 10 | 0.11 |
| (1,714) | 1:53:A:ILE:HG22 | 1:57:A:GLU:H | 17 | 0.11 |
| (1,707) | 1:56:A:GLN:H | 1:78:A:ILE:HD11 | 16 | 0.11 |
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 3 | 0.11 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---------|-----------------|-----------------|----------|---------------|
| (1,682) | 1:88:A:GLN:HB2 | 1:54:A:SER:H | 17 | 0.11 |
| (1,656) | 1:88:A:GLN:HB2 | 1:52:A:PHE:H | 15 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 1 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 3 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG21 | 4 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG23 | 9 | 0.11 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 20 | 0.11 |
| (1,573) | 1:30:A:ILE:HG21 | 1:30:A:ILE:H | 18 | 0.11 |
| (1,539) | 1:15:A:ILE:HD11 | 1:14:A:GLY:H | 20 | 0.11 |
| (1,518) | 1:97:A:LEU:HD13 | 1:94:A:PHE:HE1 | 16 | 0.11 |
| (1,518) | 1:97:A:LEU:HD12 | 1:94:A:PHE:HE1 | 19 | 0.11 |
| (1,515) | 1:98:A:LEU:HD13 | 1:94:A:PHE:HA | 2 | 0.11 |
| (1,510) | 1:93:A:GLU:HA | 1:97:A:LEU:HD23 | 13 | 0.11 |
| (1,493) | 1:93:A:GLU:HG3 | 1:89:A:VAL:HG13 | 3 | 0.11 |
| (1,491) | 1:89:A:VAL:HG11 | 1:93:A:GLU:H | 13 | 0.11 |
| (1,487) | 1:90:A:ASP:HB3 | 1:89:A:VAL:HG11 | 6 | 0.11 |
| (1,472) | 1:89:A:VAL:HG21 | 1:85:A:GLY:H | 11 | 0.11 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 8 | 0.11 |
| (1,468) | 1:84:A:ASP:HB2 | 1:83:A:MET:HB2 | 10 | 0.11 |
| (1,467) | 1:83:A:MET:H | 1:89:A:VAL:HG11 | 11 | 0.11 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD11 | 19 | 0.11 |
| (1,434) | 1:79:A:GLN:HG2 | 1:78:A:ILE:HG22 | 2 | 0.11 |
| (1,423) | 1:79:A:GLN:HG2 | 1:76:A:VAL:HG13 | 4 | 0.11 |
| (1,421) | 1:76:A:VAL:HG21 | 1:77:A:ILE:HG12 | 8 | 0.11 |
| (1,402) | 1:74:A:LEU:HD11 | 1:73:A:GLU:H | 9 | 0.11 |
| (1,371) | 1:65:A:LEU:HD13 | 1:67:A:TYR:H | 2 | 0.11 |
| (1,352) | 1:74:A:LEU:HD13 | 1:59:A:GLY:HA2 | 17 | 0.11 |
| (1,347) | 1:58:A:LEU:HD22 | 1:59:A:GLY:H | 6 | 0.11 |
| (1,345) | 1:58:A:LEU:HD11 | 1:58:A:LEU:H | 12 | 0.11 |
| (1,293) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HB3 | 1 | 0.11 |
| (1,291) | 1:90:A:ASP:HB3 | 1:52:A:PHE:HA | 17 | 0.11 |
| (1,258) | 1:45:A:PHE:HA | 1:47:A:ARG:HD2 | 20 | 0.11 |
| (1,222) | 1:38:A:ILE:H | 1:98:A:LEU:HD11 | 15 | 0.11 |
| (1,167) | 1:28:A:VAL:HG21 | 1:27:A:PRO:HA | 8 | 0.11 |
| (1,155) | 1:26:A:ARG:HB2 | 1:25:A:GLN:HA | 11 | 0.11 |
| (1,139) | 1:21:A:LEU:HD23 | 1:21:A:LEU:HA | 6 | 0.11 |
| (1,122) | 1:20:A:ASN:HD21 | 1:19:A:PRO:HB3 | 3 | 0.11 |
| (1,120) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HA | 3 | 0.11 |
| (1,117) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG11 | 1 | 0.11 |
| (1,37) | 1:56:A:GLN:H | 1:55:A:LYS:HE2 | 4 | 0.11 |
| (1,36) | 1:55:A:LYS:HE3 | 1:87:A:GLY:HA3 | 17 | 0.11 |
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 4 | 0.1 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|----------|-----------------|-----------------|----------|---------------|
| (2,5) | 1:45:A:PHE:H | 1:41:A:ALA:O | 5 | 0.1 |
| (2,4) | 1:44:A:VAL:H | 1:40:A:GLU:O | 13 | 0.1 |
| (1,1875) | 1:62:A:MET:HG2 | 1:69:A:PRO:HD2 | 19 | 0.1 |
| (1,1741) | 1:44:A:VAL:H | 1:41:A:ALA:HB1 | 1 | 0.1 |
| (1,1736) | 1:41:A:ALA:HB2 | 1:38:A:ILE:HG23 | 10 | 0.1 |
| (1,1736) | 1:41:A:ALA:HB3 | 1:38:A:ILE:HG23 | 16 | 0.1 |
| (1,1704) | 1:74:A:LEU:HD21 | 1:55:A:LYS:H | 2 | 0.1 |
| (1,1528) | 1:19:A:PRO:HD2 | 1:18:A:VAL:HG22 | 19 | 0.1 |
| (1,1485) | 1:38:A:ILE:HD13 | 1:91:A:PHE:HZ | 13 | 0.1 |
| (1,1455) | 1:60:A:THR:HG23 | 1:45:A:PHE:HB3 | 7 | 0.1 |
| (1,1403) | 1:77:A:ILE:HG22 | 1:78:A:ILE:HG12 | 1 | 0.1 |
| (1,1366) | 1:44:A:VAL:HG13 | 1:43:A:LYS:HE2 | 12 | 0.1 |
| (1,1366) | 1:44:A:VAL:HG11 | 1:43:A:LYS:HE2 | 13 | 0.1 |
| (1,1366) | 1:44:A:VAL:HG12 | 1:43:A:LYS:HE2 | 17 | 0.1 |
| (1,1348) | 1:53:A:ILE:HG21 | 1:58:A:LEU:HB3 | 1 | 0.1 |
| (1,1338) | 1:95:A:VAL:HG13 | 1:38:A:ILE:HG13 | 3 | 0.1 |
| (1,1203) | 1:81:A:LEU:H | 1:89:A:VAL:HG12 | 6 | 0.1 |
| (1,1201) | 1:89:A:VAL:HG13 | 1:89:A:VAL:H | 5 | 0.1 |
| (1,1201) | 1:89:A:VAL:HG11 | 1:89:A:VAL:H | 13 | 0.1 |
| (1,1201) | 1:89:A:VAL:HG11 | 1:89:A:VAL:H | 18 | 0.1 |
| (1,925) | 1:79:A:GLN:HB2 | 1:79:A:GLN:H | 10 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 2 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 6 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 8 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 11 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 12 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 17 | 0.1 |
| (1,765) | 1:63:A:ARG:HB2 | 1:63:A:ARG:H | 18 | 0.1 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 8 | 0.1 |
| (1,586) | 1:38:A:ILE:H | 1:38:A:ILE:HG22 | 17 | 0.1 |
| (1,490) | 1:89:A:VAL:HG12 | 1:92:A:GLU:H | 17 | 0.1 |
| (1,436) | 1:82:A:ASP:HB2 | 1:78:A:ILE:HD11 | 1 | 0.1 |
| (1,425) | 1:76:A:VAL:HG23 | 1:80:A:ARG:HG2 | 20 | 0.1 |
| (1,402) | 1:74:A:LEU:HD13 | 1:73:A:GLU:H | 18 | 0.1 |
| (1,389) | 1:72:A:VAL:HG23 | 1:70:A:ASN:HD21 | 1 | 0.1 |
| (1,327) | 1:74:A:LEU:HD21 | 1:56:A:GLN:H | 14 | 0.1 |
| (1,317) | 1:74:A:LEU:HD11 | 1:55:A:LYS:HG3 | 17 | 0.1 |
| (1,309) | 1:74:A:LEU:HD11 | 1:55:A:LYS:H | 17 | 0.1 |
| (1,278) | 1:47:A:ARG:HG2 | 1:57:A:GLU:HG2 | 2 | 0.1 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 11 | 0.1 |
| (1,251) | 1:43:A:LYS:H | 1:43:A:LYS:HG2 | 16 | 0.1 |
| (1,214) | 1:35:A:LEU:HD23 | 1:91:A:PHE:HE2 | 9 | 0.1 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------------|-----------------|-----------------|-----------------|----------------------|
| (1,208) | 1:36:A:GLU:HB2 | 1:35:A:LEU:HB3 | 11 | 0.1 |
| (1,197) | 1:33:A:ASP:HB2 | 1:34:A:GLU:HG2 | 5 | 0.1 |
| (1,154) | 1:25:A:GLN:HG2 | 1:25:A:GLN:HA | 14 | 0.1 |
| (1,145) | 1:22:A:LEU:HG | 1:23:A:SER:HB2 | 17 | 0.1 |
| (1,139) | 1:21:A:LEU:HD21 | 1:21:A:LEU:HA | 5 | 0.1 |
| (1,121) | 1:20:A:ASN:HB2 | 1:19:A:PRO:HB3 | 8 | 0.1 |
| (1,99) | 1:26:A:ARG:HG3 | 1:25:A:GLN:HG2 | 9 | 0.1 |
| (1,98) | 1:80:A:ARG:HG2 | 1:76:A:VAL:HG12 | 20 | 0.1 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 17 | 0.1 |
| (1,40) | 1:39:A:ARG:HA | 1:43:A:LYS:HD3 | 20 | 0.1 |

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

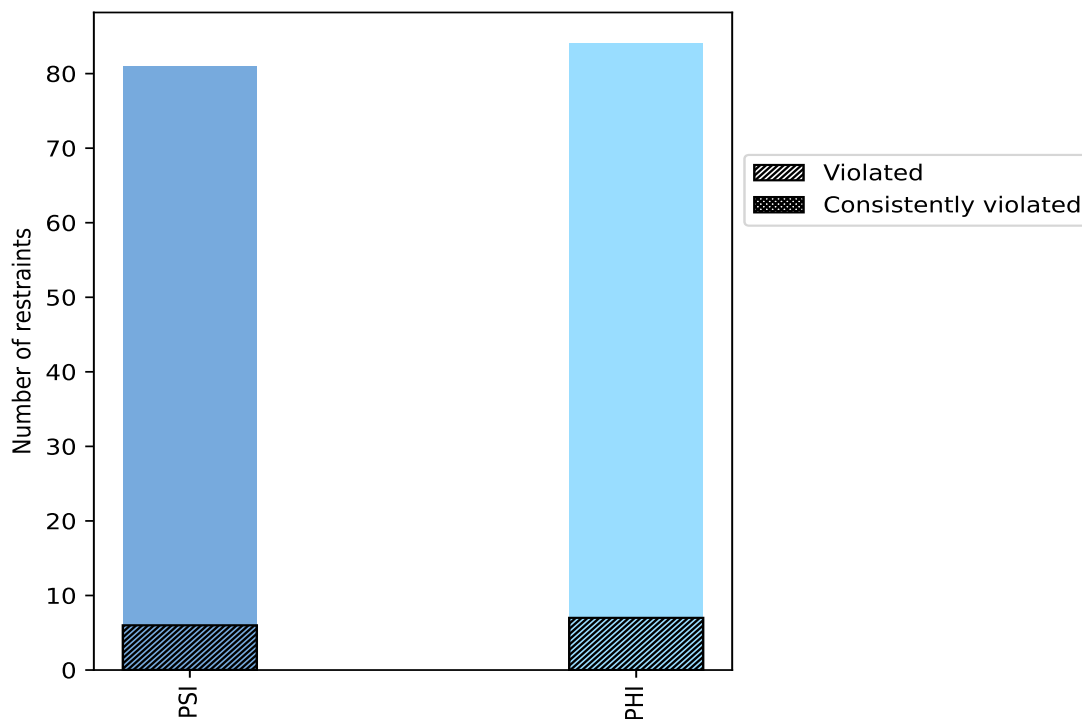
10.1 Summary of dihedral-angle violations [i](#)

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

| Angle type | Count | % ¹ | Violated ³ | | | Consistently Violated ⁴ | | |
|------------|-------|----------------|-----------------------|----------------|----------------|------------------------------------|----------------|----------------|
| | | | Count | % ² | % ¹ | Count | % ² | % ¹ |
| PSI | 81 | 49.1 | 6 | 7.4 | 3.6 | 0 | 0.0 | 0.0 |
| PHI | 84 | 50.9 | 7 | 8.3 | 4.2 | 0 | 0.0 | 0.0 |
| Total | 165 | 100.0 | 13 | 7.9 | 7.9 | 0 | 0.0 | 0.0 |

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

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



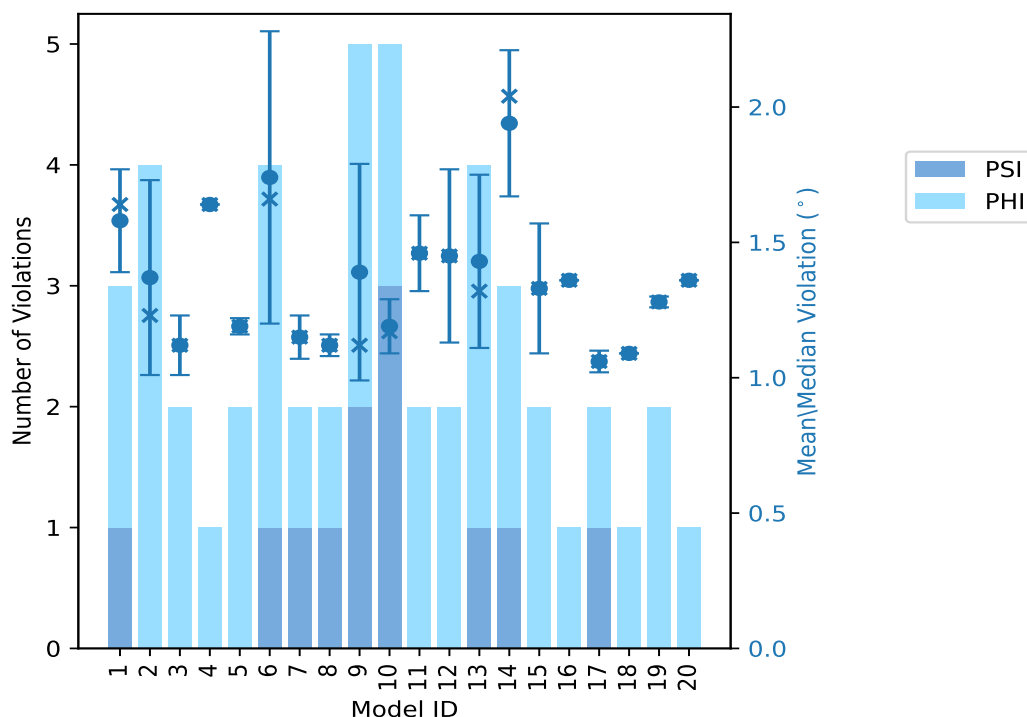
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

| Model ID | Number of violations | | | Mean (°) | Max (°) | SD (°) | Median (°) |
|----------|----------------------|-----|-------|----------|---------|--------|------------|
| | PSI | PHI | Total | | | | |
| 1 | 1 | 2 | 3 | 1.58 | 1.78 | 0.19 | 1.64 |
| 2 | 0 | 4 | 4 | 1.37 | 1.96 | 0.36 | 1.23 |
| 3 | 0 | 2 | 2 | 1.12 | 1.23 | 0.11 | 1.12 |
| 4 | 0 | 1 | 1 | 1.64 | 1.64 | 0.0 | 1.64 |
| 5 | 0 | 2 | 2 | 1.19 | 1.22 | 0.03 | 1.19 |
| 6 | 1 | 3 | 4 | 1.74 | 2.52 | 0.54 | 1.66 |
| 7 | 1 | 1 | 2 | 1.15 | 1.23 | 0.08 | 1.15 |
| 8 | 1 | 1 | 2 | 1.12 | 1.16 | 0.04 | 1.12 |
| 9 | 2 | 3 | 5 | 1.39 | 1.9 | 0.4 | 1.12 |
| 10 | 3 | 2 | 5 | 1.19 | 1.37 | 0.1 | 1.17 |
| 11 | 0 | 2 | 2 | 1.46 | 1.6 | 0.14 | 1.46 |
| 12 | 0 | 2 | 2 | 1.45 | 1.77 | 0.32 | 1.45 |
| 13 | 1 | 3 | 4 | 1.43 | 1.96 | 0.32 | 1.32 |
| 14 | 1 | 2 | 3 | 1.94 | 2.21 | 0.27 | 2.04 |
| 15 | 0 | 2 | 2 | 1.33 | 1.57 | 0.24 | 1.33 |
| 16 | 0 | 1 | 1 | 1.36 | 1.36 | 0.0 | 1.36 |
| 17 | 1 | 1 | 2 | 1.06 | 1.09 | 0.04 | 1.06 |
| 18 | 0 | 1 | 1 | 1.09 | 1.09 | 0.0 | 1.09 |
| 19 | 0 | 2 | 2 | 1.28 | 1.3 | 0.02 | 1.28 |
| 20 | 0 | 1 | 1 | 1.36 | 1.36 | 0.0 | 1.36 |

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



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

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

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

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

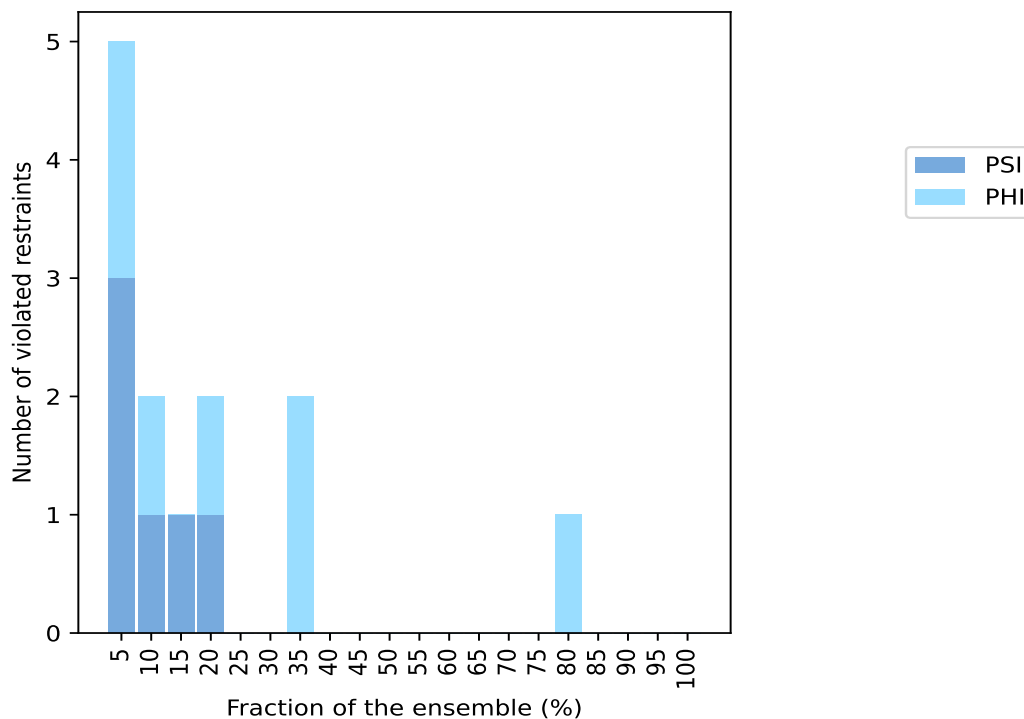
Continued on next page...

Continued from previous page...

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

¹ Number of models with violations

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

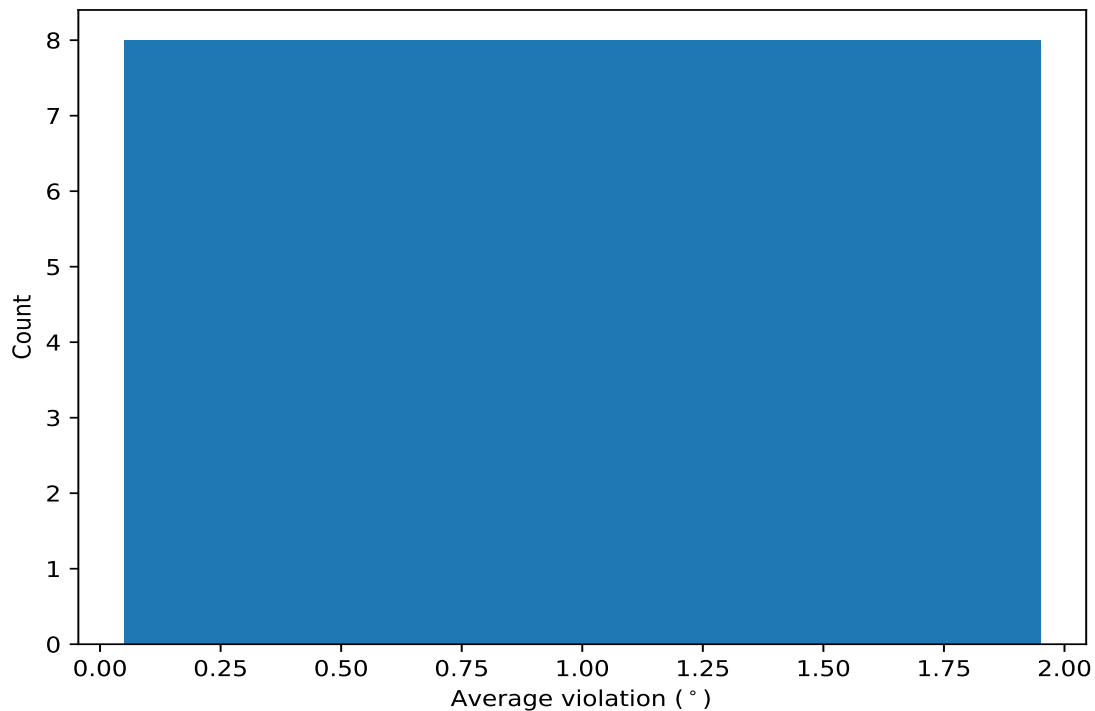


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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

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

in the ensemble



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

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

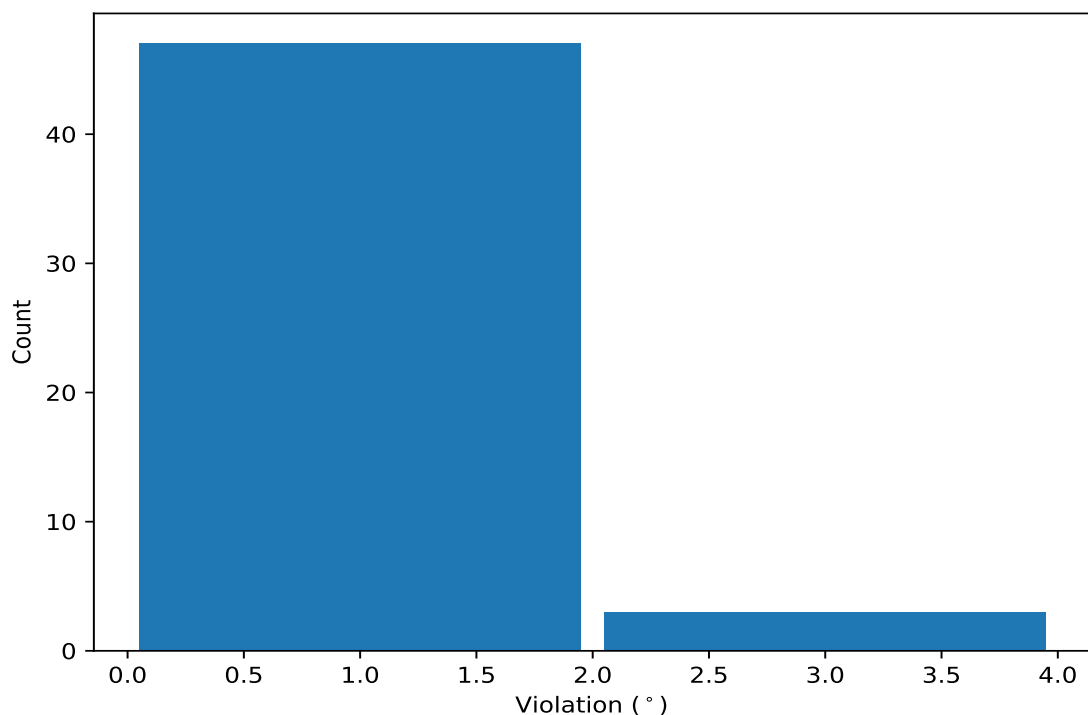
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models ¹ | Mean | SD ² | Median |
|---------|--------------|---------------|---------------|--------------|---------------------|------|-----------------|--------|
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 16 | 1.52 | 0.34 | 1.47 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 7 | 1.25 | 0.18 | 1.16 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 7 | 1.19 | 0.09 | 1.18 |
| (1,33) | 1:31:A:PRO:N | 1:31:A:PRO:CA | 1:31:A:PRO:C | 1:32:A:GLU:N | 4 | 1.52 | 0.35 | 1.44 |
| (1,112) | 1:71:A:GLU:C | 1:72:A:VAL:N | 1:72:A:VAL:CA | 1:72:A:VAL:C | 4 | 1.33 | 0.28 | 1.27 |
| (1,29) | 1:28:A:VAL:N | 1:28:A:VAL:CA | 1:28:A:VAL:C | 1:29:A:ASP:N | 3 | 1.47 | 0.36 | 1.37 |
| (1,136) | 1:83:A:MET:C | 1:84:A:ASP:N | 1:84:A:ASP:CA | 1:84:A:ASP:C | 2 | 1.12 | 0.04 | 1.12 |
| (1,127) | 1:79:A:GLN:N | 1:79:A:GLN:CA | 1:79:A:GLN:C | 1:80:A:ARG:N | 2 | 1.1 | 0.03 | 1.1 |

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

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

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

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



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

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,22) | 1:23:A:SER:N | 1:23:A:SER:CA | 1:23:A:SER:C | 1:24:A:GLU:N | 6 | 2.52 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 14 | 2.21 |
| (1,33) | 1:31:A:PRO:N | 1:31:A:PRO:CA | 1:31:A:PRO:C | 1:32:A:GLU:N | 14 | 2.04 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 2 | 1.96 |
| (1,29) | 1:28:A:VAL:N | 1:28:A:VAL:CA | 1:28:A:VAL:C | 1:29:A:ASP:N | 13 | 1.96 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 6 | 1.91 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 9 | 1.9 |
| (1,143) | 1:87:A:GLY:N | 1:87:A:GLY:CA | 1:87:A:GLY:C | 1:88:A:GLN:N | 9 | 1.85 |
| (1,112) | 1:71:A:GLU:C | 1:72:A:VAL:N | 1:72:A:VAL:CA | 1:72:A:VAL:C | 1 | 1.78 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 12 | 1.77 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 4 | 1.64 |
| (1,33) | 1:31:A:PRO:N | 1:31:A:PRO:CA | 1:31:A:PRO:C | 1:32:A:GLU:N | 1 | 1.64 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 11 | 1.6 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 14 | 1.58 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 15 | 1.57 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 6 | 1.41 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 13 | 1.37 |
| (1,29) | 1:28:A:VAL:N | 1:28:A:VAL:CA | 1:28:A:VAL:C | 1:29:A:ASP:N | 10 | 1.37 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 16 | 1.36 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 20 | 1.36 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 2 | 1.34 |

Continued on next page...

Continued from previous page...

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---------|--------------|---------------|---------------|--------------|----------|---------------|
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 1 | 1.33 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 11 | 1.32 |
| (1,112) | 1:71:A:GLU:C | 1:72:A:VAL:N | 1:72:A:VAL:CA | 1:72:A:VAL:C | 19 | 1.3 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 19 | 1.27 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 13 | 1.26 |
| (1,112) | 1:71:A:GLU:C | 1:72:A:VAL:N | 1:72:A:VAL:CA | 1:72:A:VAL:C | 3 | 1.23 |
| (1,33) | 1:31:A:PRO:N | 1:31:A:PRO:CA | 1:31:A:PRO:C | 1:32:A:GLU:N | 7 | 1.23 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 5 | 1.22 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 10 | 1.18 |
| (1,33) | 1:31:A:PRO:N | 1:31:A:PRO:CA | 1:31:A:PRO:C | 1:32:A:GLU:N | 10 | 1.17 |
| (1,136) | 1:83:A:MET:C | 1:84:A:ASP:N | 1:84:A:ASP:CA | 1:84:A:ASP:C | 8 | 1.16 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 5 | 1.16 |
| (1,127) | 1:79:A:GLN:N | 1:79:A:GLN:CA | 1:79:A:GLN:C | 1:80:A:ARG:N | 10 | 1.14 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 12 | 1.13 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 13 | 1.13 |
| (1,36) | 1:32:A:GLU:C | 1:33:A:ASP:N | 1:33:A:ASP:CA | 1:33:A:ASP:C | 2 | 1.13 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 9 | 1.12 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 6 | 1.1 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 18 | 1.09 |
| (1,29) | 1:28:A:VAL:N | 1:28:A:VAL:CA | 1:28:A:VAL:C | 1:29:A:ASP:N | 17 | 1.09 |
| (1,50) | 1:39:A:ARG:C | 1:40:A:GLU:N | 1:40:A:GLU:CA | 1:40:A:GLU:C | 15 | 1.08 |
| (1,136) | 1:83:A:MET:C | 1:84:A:ASP:N | 1:84:A:ASP:CA | 1:84:A:ASP:C | 10 | 1.07 |
| (1,127) | 1:79:A:GLN:N | 1:79:A:GLN:CA | 1:79:A:GLN:C | 1:80:A:ARG:N | 8 | 1.07 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 7 | 1.07 |
| (1,99) | 1:65:A:LEU:N | 1:65:A:LEU:CA | 1:65:A:LEU:C | 1:66:A:GLY:N | 9 | 1.06 |
| (1,156) | 1:93:A:GLU:C | 1:94:A:PHE:N | 1:94:A:PHE:CA | 1:94:A:PHE:C | 2 | 1.04 |
| (1,112) | 1:71:A:GLU:C | 1:72:A:VAL:N | 1:72:A:VAL:CA | 1:72:A:VAL:C | 17 | 1.02 |
| (1,122) | 1:76:A:VAL:C | 1:77:A:ILE:N | 1:77:A:ILE:CA | 1:77:A:ILE:C | 9 | 1.01 |
| (1,64) | 1:47:A:ARG:C | 1:48:A:ASP:N | 1:48:A:ASP:CA | 1:48:A:ASP:C | 3 | 1.01 |