# Full wwPDB NMR Structure Validation Report (i)

Jun 3, 2023 – 10:12 PM EDT

| | | |
|---|---|---|
| PDB ID | : | 7LOH |
| BMRB ID | : | 30855 |
| Title | : | Structure of the HIV-1 gp41 transmembrane domain and cytoplasmic tail |
| Authors | : | Piai, A.; Fu, Q.; Sharp, A.K.; Bighi, B.; Brown, A.M.; Chou, J.J. |
| Deposited on | : | 2021-02-10 |

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 (i) 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 (i)) were used in the production of this report:

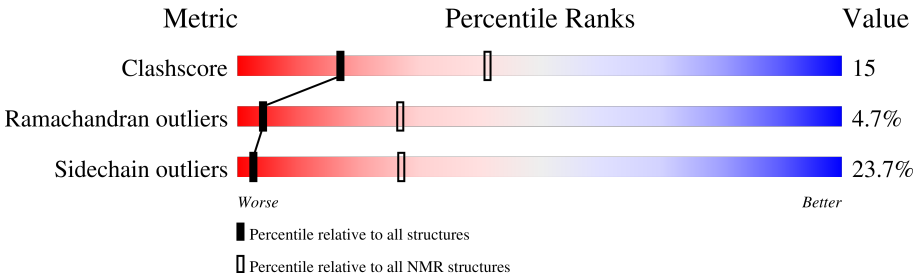
| | | |
|---|---|---|
| MolProbity | : | 4.02b-467 |
| Percentile statistics | : | 20191225.v01 (using entries in the PDB archive December 25th 2019) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| BMRB Restraints Analysis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

# 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 8%.

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




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

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

| Mol | Chain | Length | Quality of chain |
|---|---|---|---|
| 1 | A | 180 | 39% 34% 6% 8% 12% |
| 1 | B | 180 | 47% 29% 5% 7% 12% |
| 1 | C | 180 | 47% 32% • 7% 12% |

## 2 Ensemble composition and analysis

This entry contains 15 models. Model 5 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

| Well-defined (core) protein residues | | | |
|---|---|---|---|
| **Well-defined core** | **Residue range (total)** | **Backbone RMSD (Å)** | **Medoid model** |
| 1 | A:692-A:716, A:739-A:856, B:689-B:716, B:739-B:856, C:690-C:716, C:739-C:856 (434) | 1.42 | 5 |

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

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

The models can be grouped into 4 clusters. No single-model clusters were found.

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

# 3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 8049 atoms, of which 4131 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Transmembrane protein gp41.

| Mol | Chain | Residues | Atoms | | | | | Trace |
|---|---|---|---|---|---|---|---|---|
| 1 | A | 158 | Total | C | H | N | O | 0 |
| | | | 2683 | 844 | 1377 | 245 | 217 | |
| 1 | B | 158 | Total | C | H | N | O | 0 |
| | | | 2683 | 844 | 1377 | 245 | 217 | |
| 1 | C | 158 | Total | C | H | N | O | 0 |
| | | | 2683 | 844 | 1377 | 245 | 217 | |

There are 24 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment | Reference |
|---|---|---|---|---|---|
| A | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| A | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| A | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| A | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| A | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| A | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| A | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| A | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| B | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| B | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| B | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| B | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| B | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| B | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| B | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| B | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| C | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| C | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| C | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| C | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| C | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| C | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| C | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| C | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |

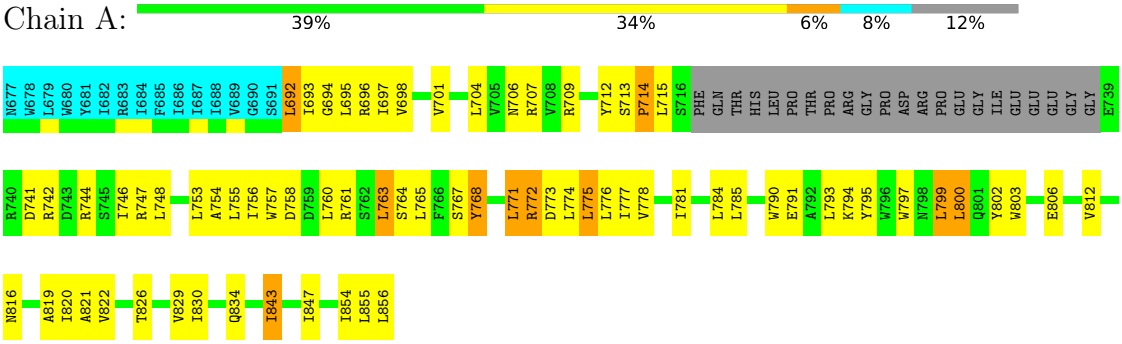
# 4 Residue-property plots

## 4.1 Average score per residue in the NMR ensemble

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

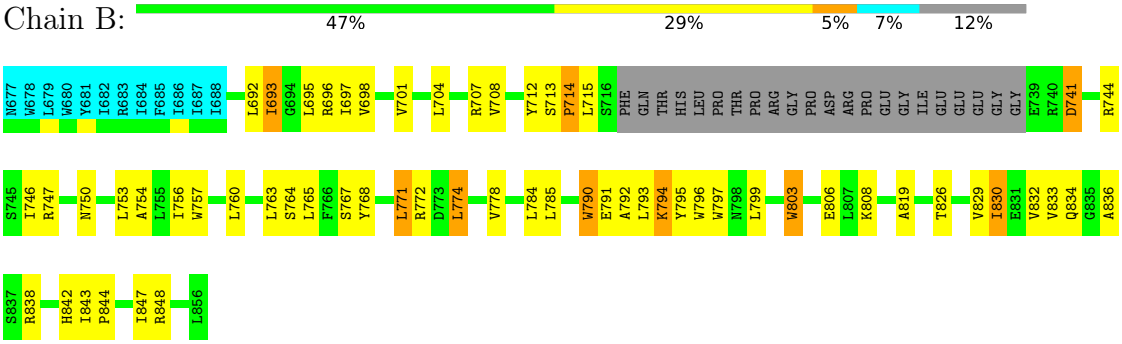
• Molecule 1: Transmembrane protein gp41

Chain A:



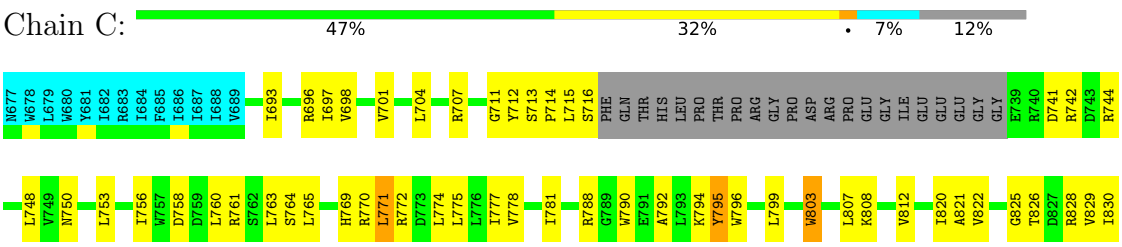

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

Chain C:



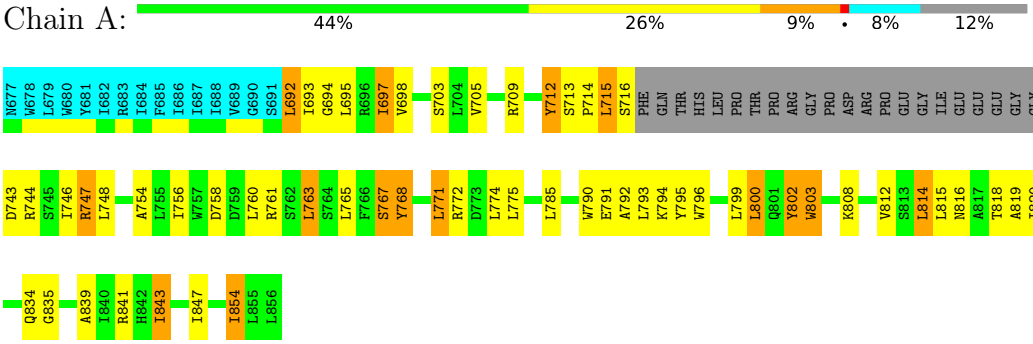
## 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

### 4.2.1 Score per residue for model 1

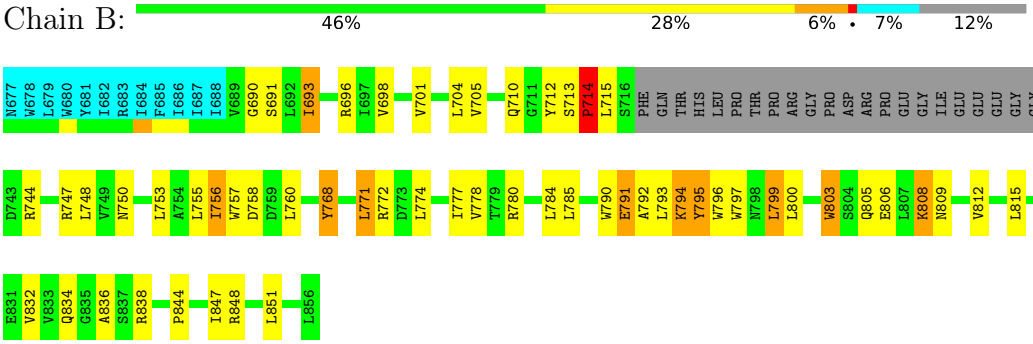
• Molecule 1: Transmembrane protein gp41

Chain A:



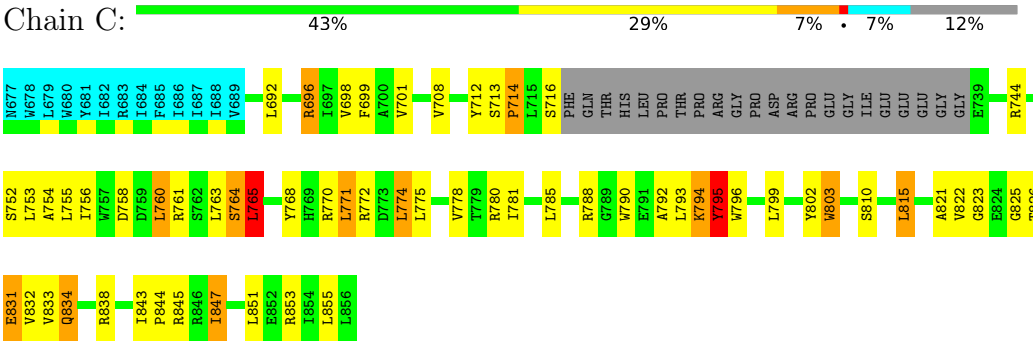

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

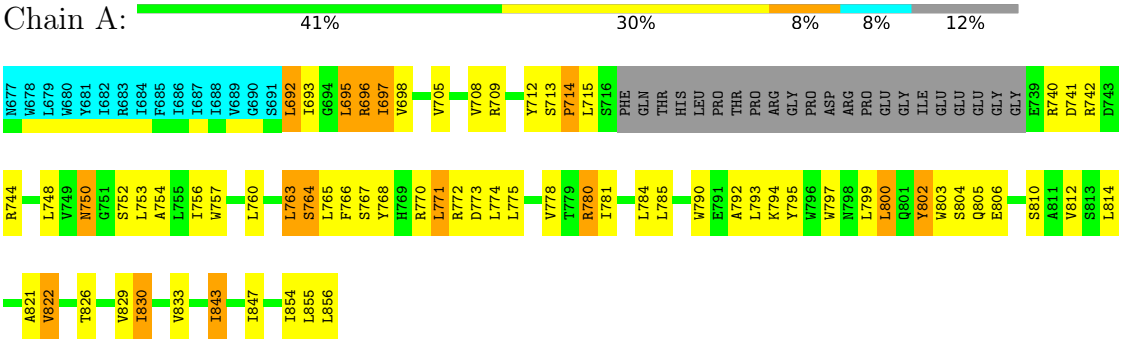
Chain C:



### 4.2.2 Score per residue for model 2

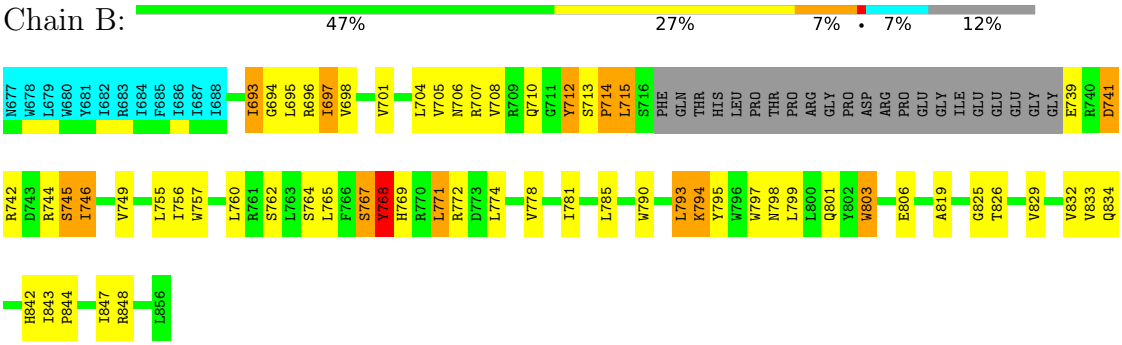
• Molecule 1: Transmembrane protein gp41

Chain A:



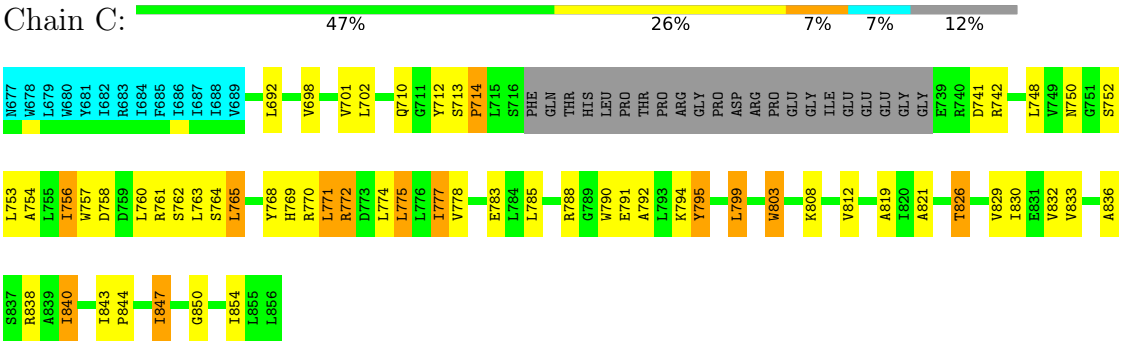

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

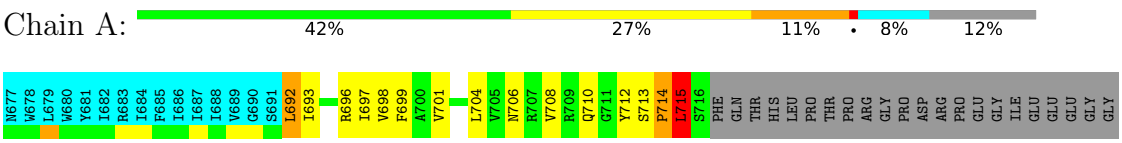
Chain C:

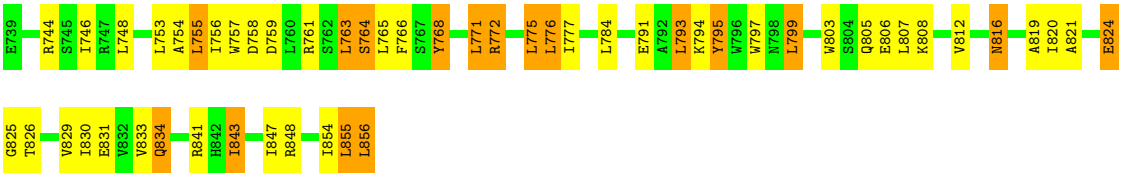



### 4.2.3 Score per residue for model 3

• Molecule 1: Transmembrane protein gp41

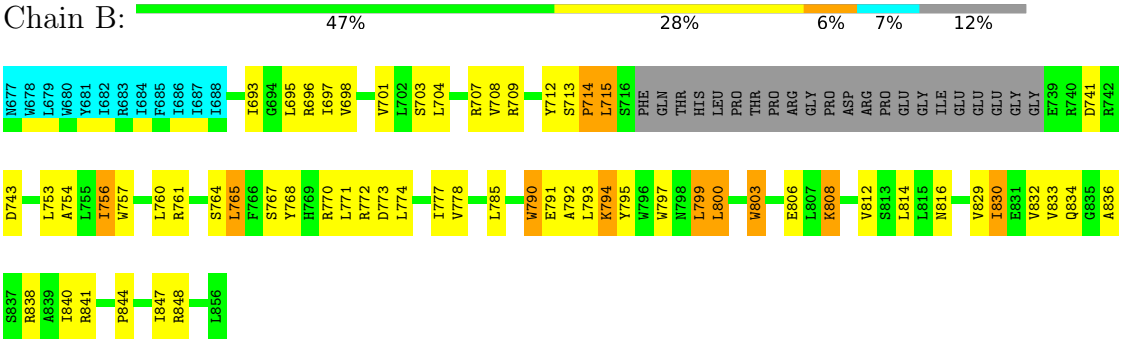
Chain A:





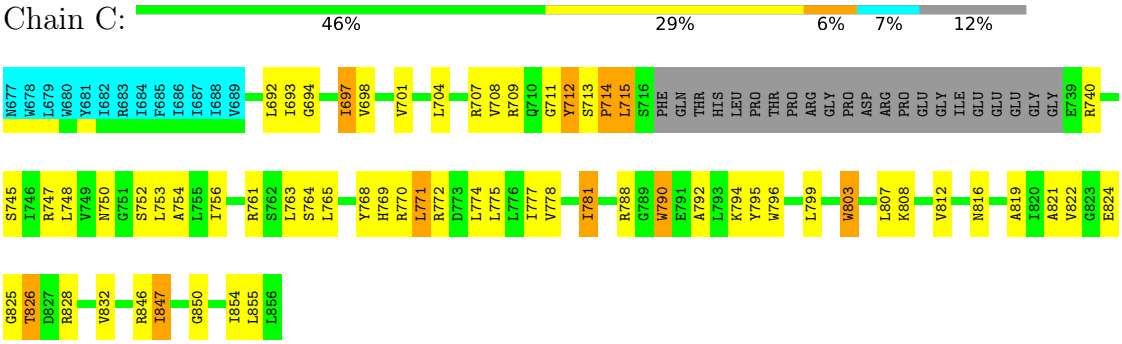

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

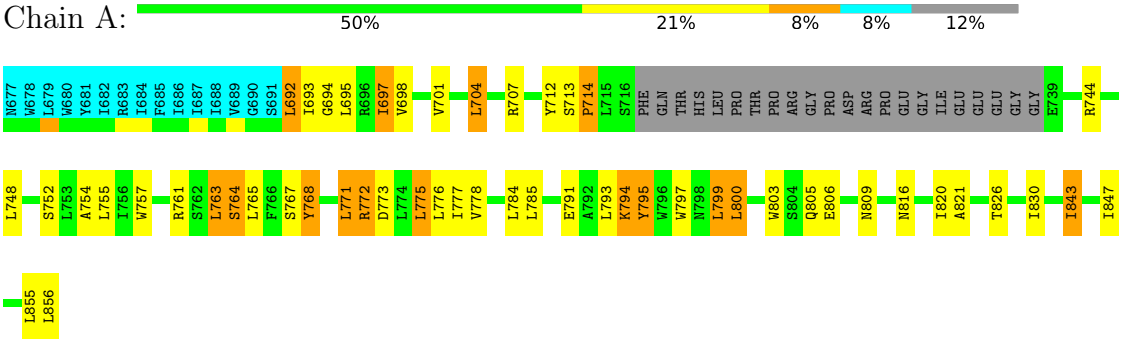
Chain C:




### 4.2.4 Score per residue for model 4

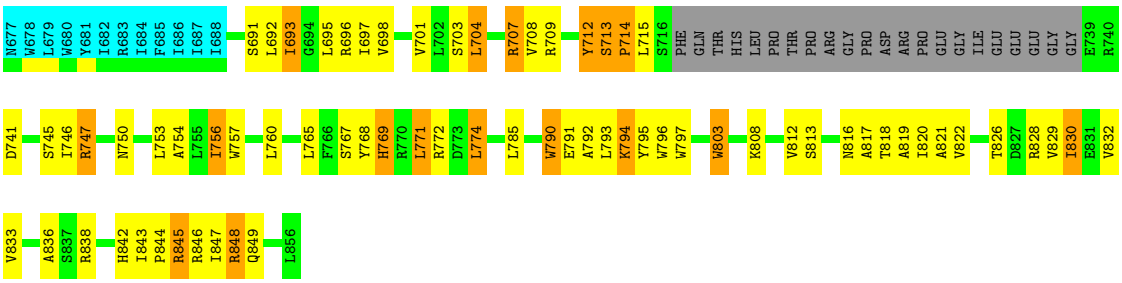
• Molecule 1: Transmembrane protein gp41

Chain A:



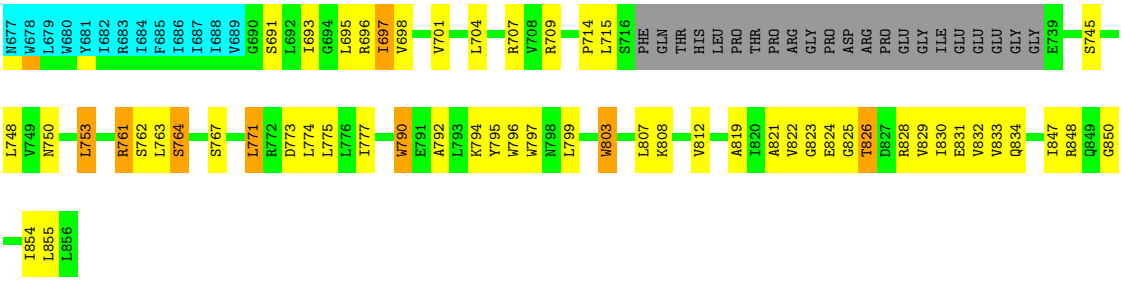

• Molecule 1: Transmembrane protein gp41

Chain B:



• Molecule 1: Transmembrane protein gp41

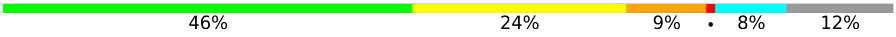
Chain C:

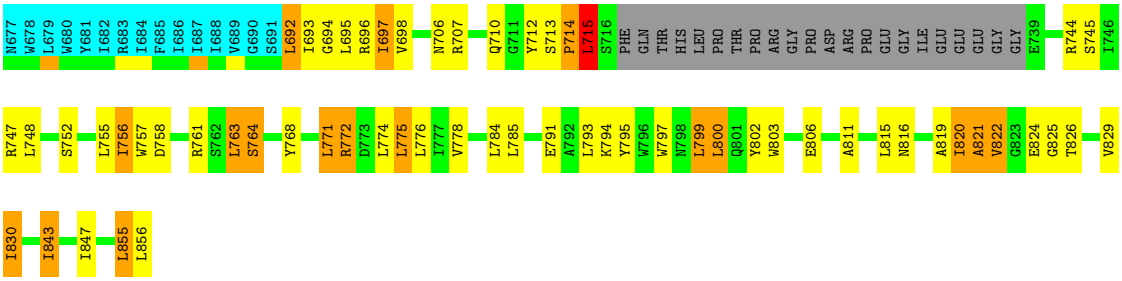


### 4.2.5 Score per residue for model 5 (medoid)

• Molecule 1: Transmembrane protein gp41

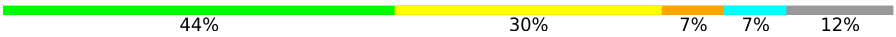
Chain A:

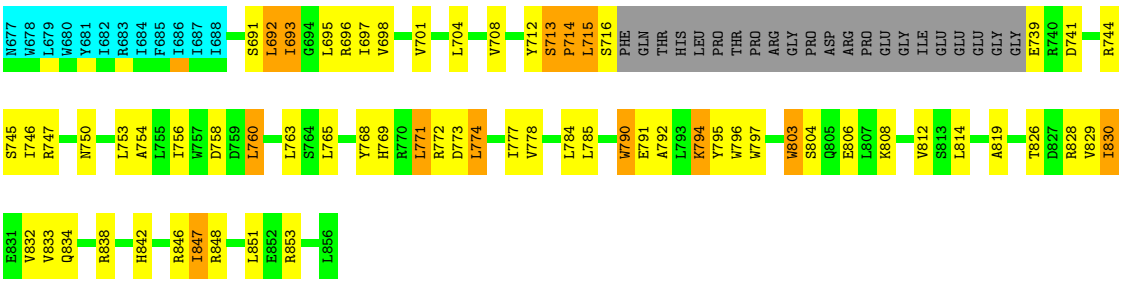


• Molecule 1: Transmembrane protein gp41

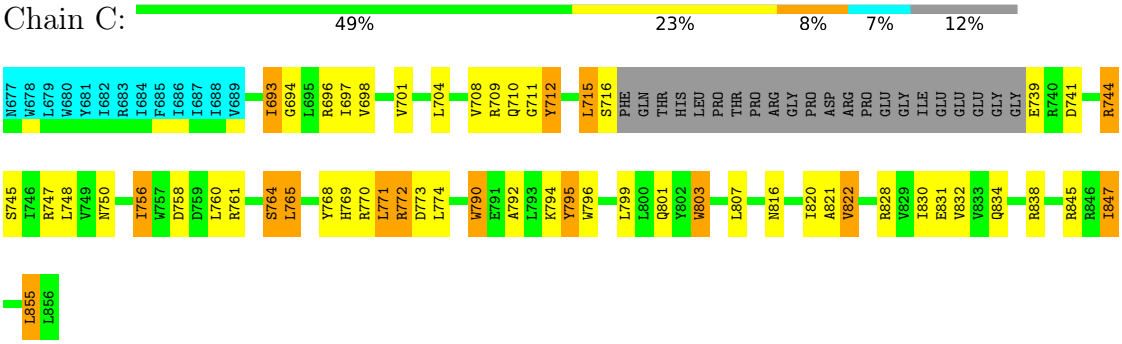
Chain B:



• Molecule 1: Transmembrane protein gp41

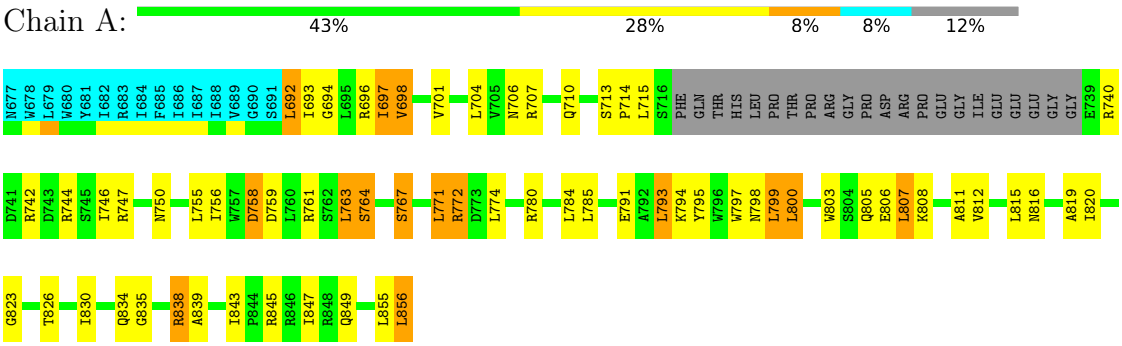
Chain C:




### 4.2.6 Score per residue for model 6

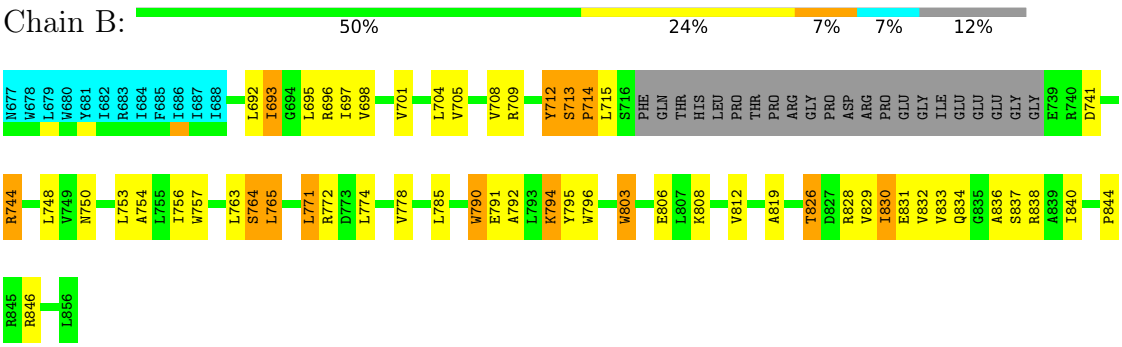
• Molecule 1: Transmembrane protein gp41

Chain A:



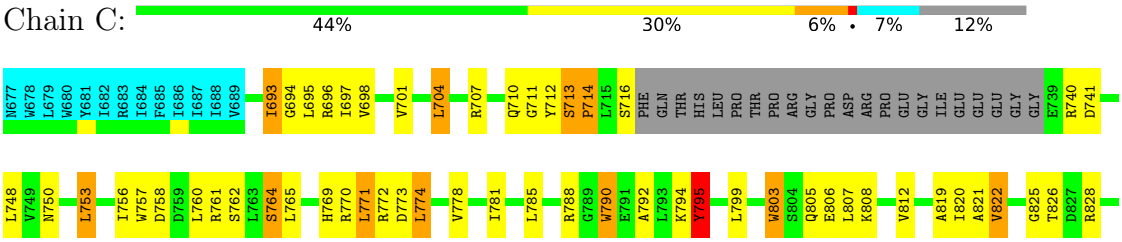

• Molecule 1: Transmembrane protein gp41

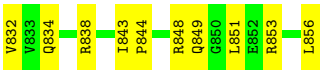
Chain B:




• Molecule 1: Transmembrane protein gp41

Chain C:

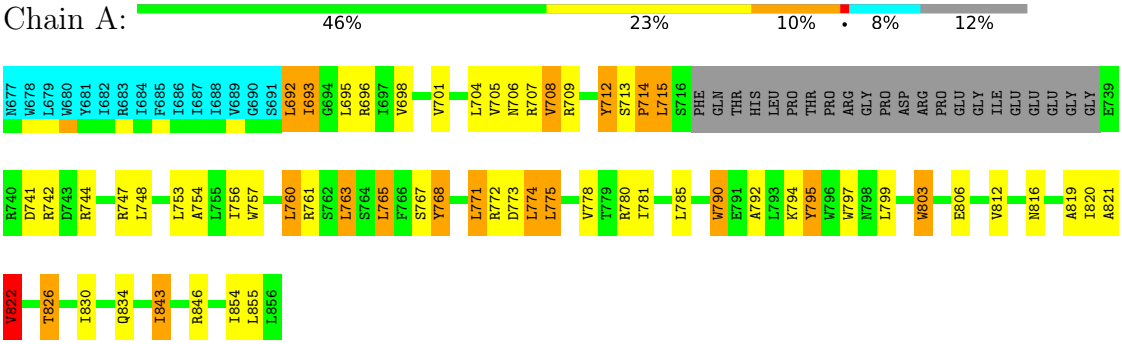





### 4.2.7 Score per residue for model 7

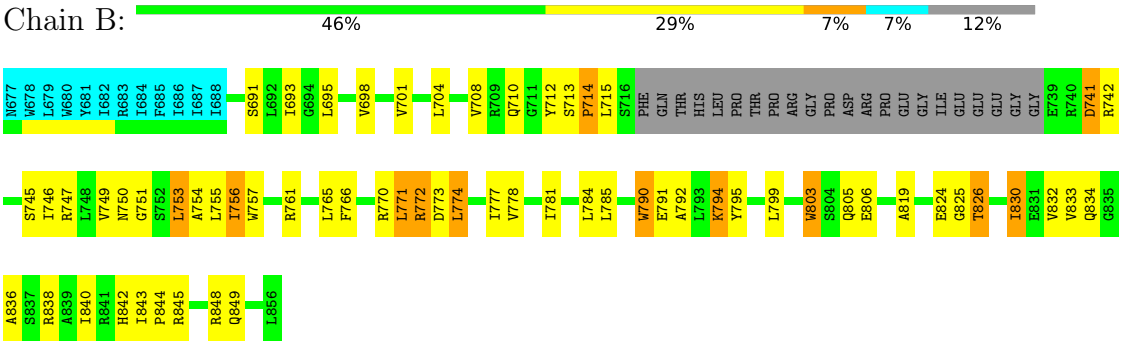
• Molecule 1: Transmembrane protein gp41

Chain A:



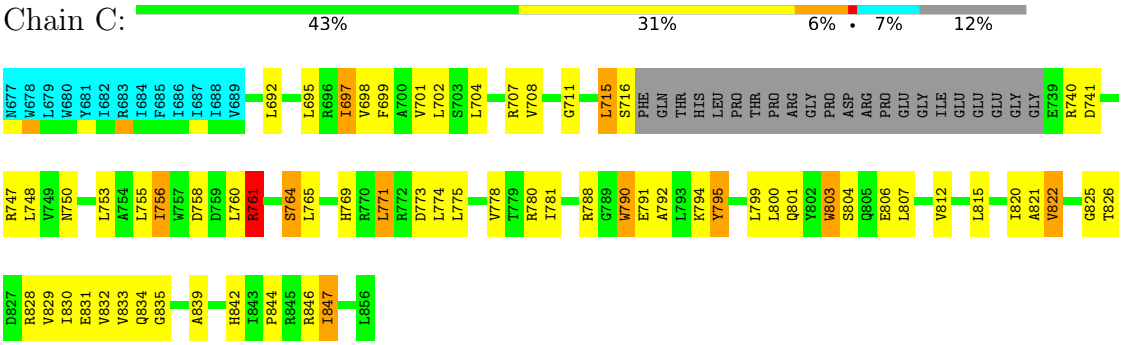

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

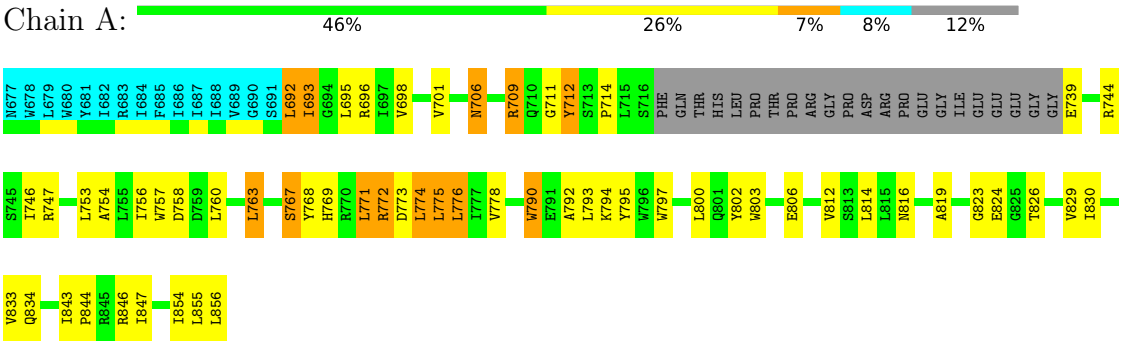
Chain C:




### 4.2.8 Score per residue for model 8

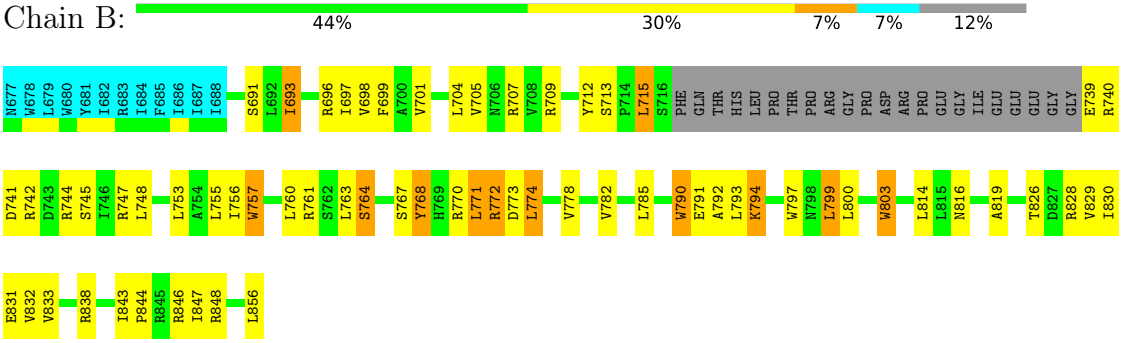
• Molecule 1: Transmembrane protein gp41

Chain A:



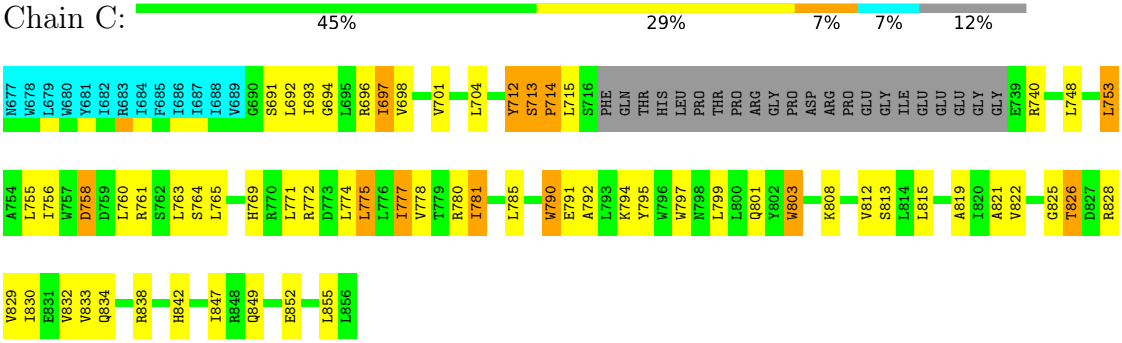

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

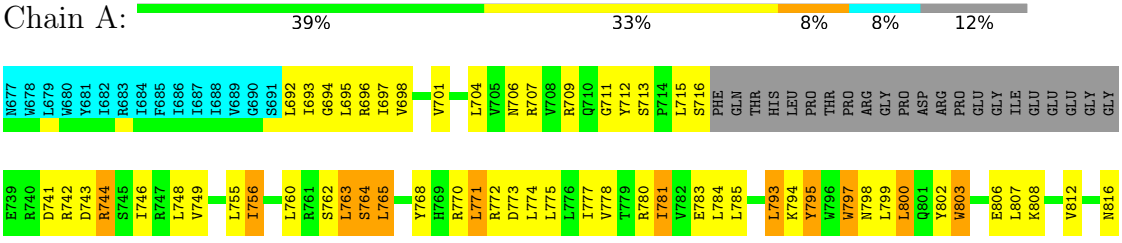
Chain C:




### 4.2.9 Score per residue for model 9

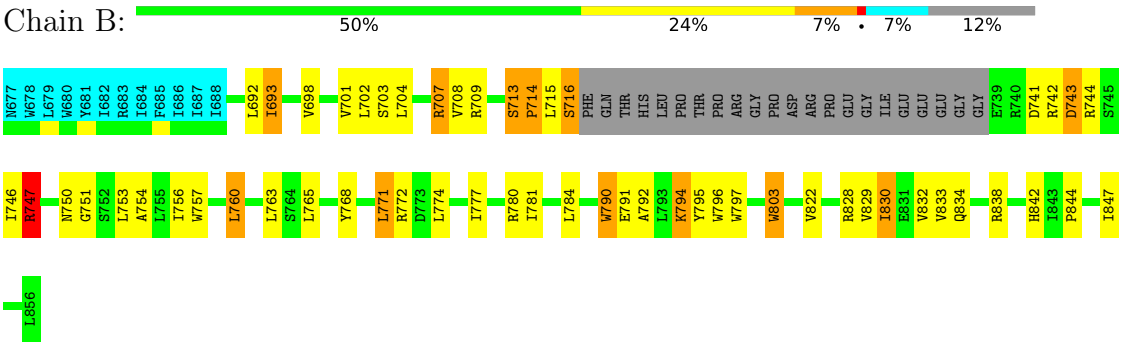
• Molecule 1: Transmembrane protein gp41

Chain A:



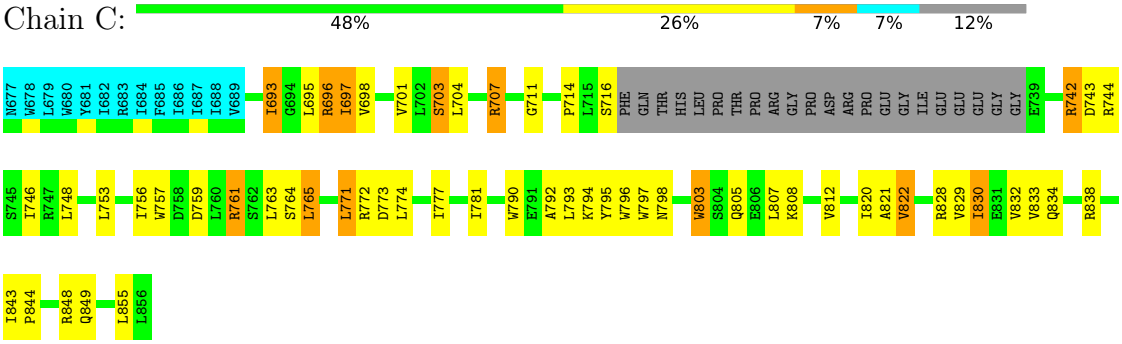
• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

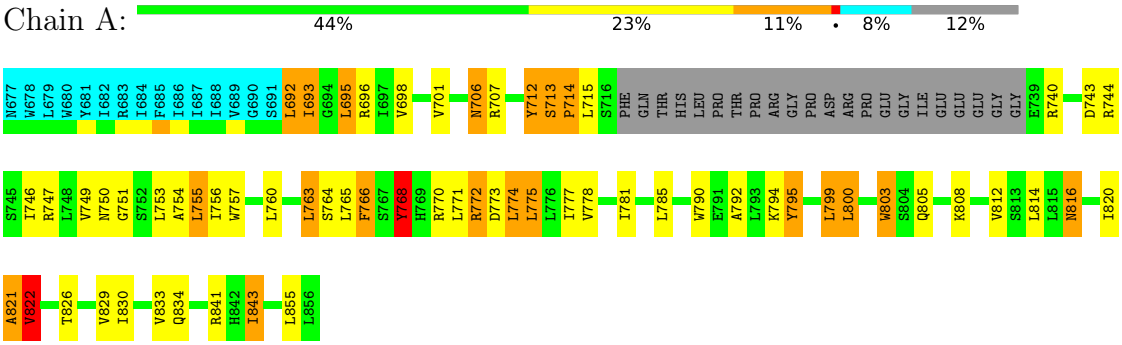
Chain C:




### 4.2.10 Score per residue for model 10

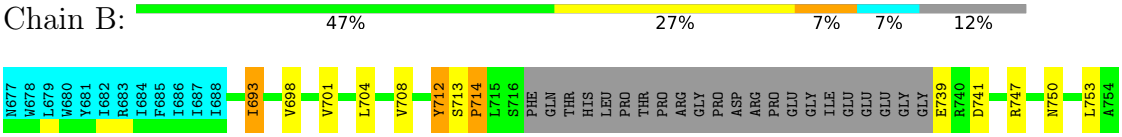
• Molecule 1: Transmembrane protein gp41

Chain A:

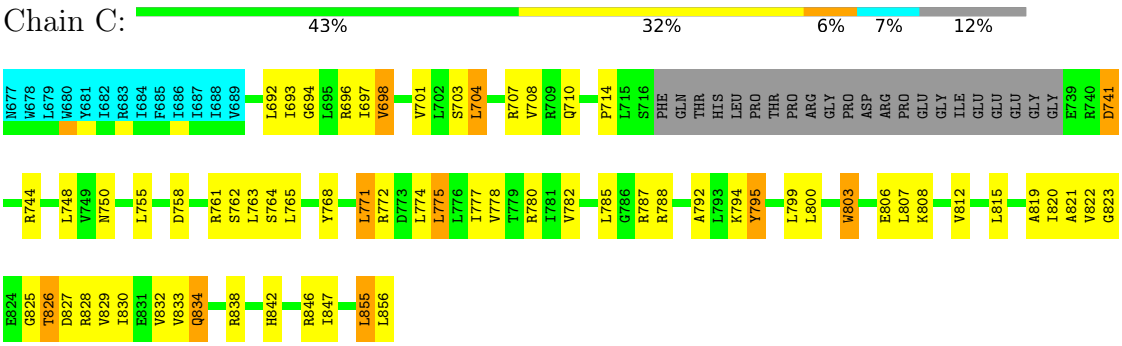



• Molecule 1: Transmembrane protein gp41

Chain B:

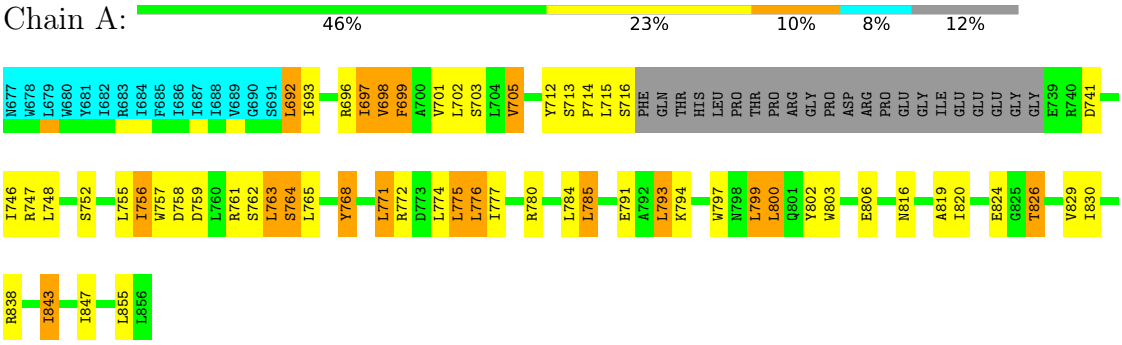


• Molecule 1: Transmembrane protein gp41

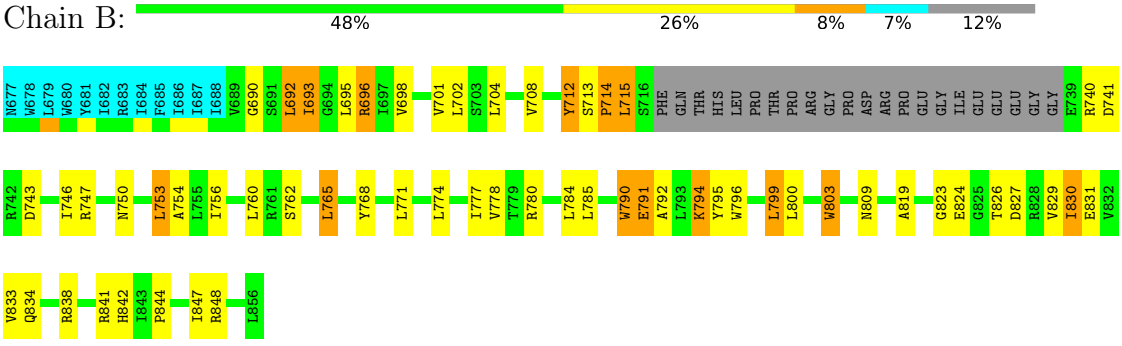



### 4.2.11 Score per residue for model 11

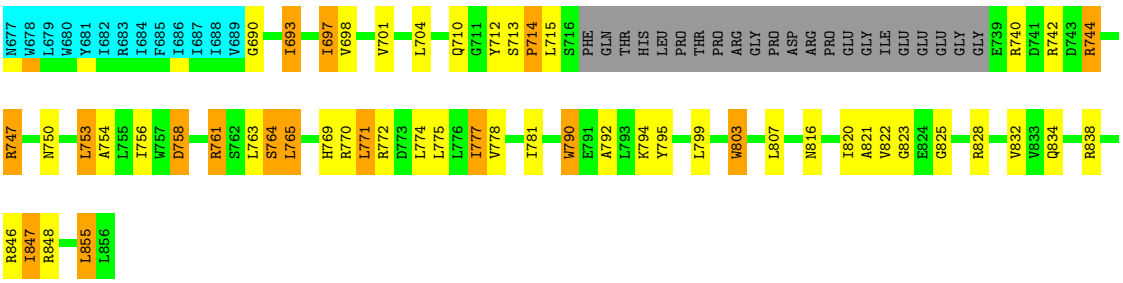
• Molecule 1: Transmembrane protein gp41




• Molecule 1: Transmembrane protein gp41



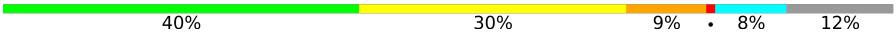

• Molecule 1: Transmembrane protein gp41

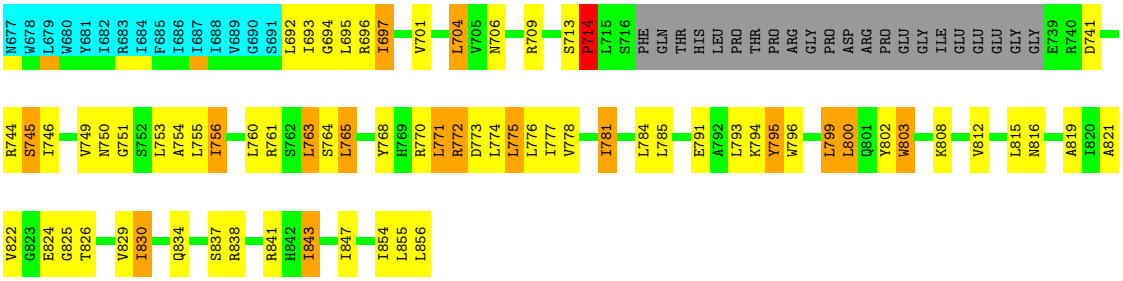


### 4.2.12 Score per residue for model 12

• Molecule 1: Transmembrane protein gp41

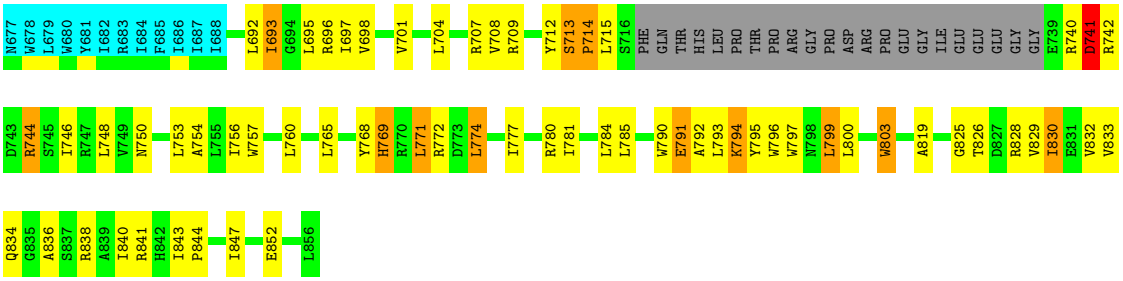
Chain A:



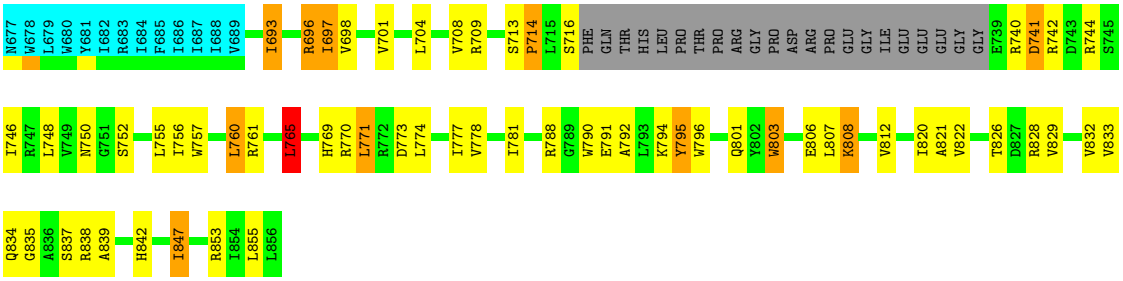
• Molecule 1: Transmembrane protein gp41

Chain B:



• Molecule 1: Transmembrane protein gp41

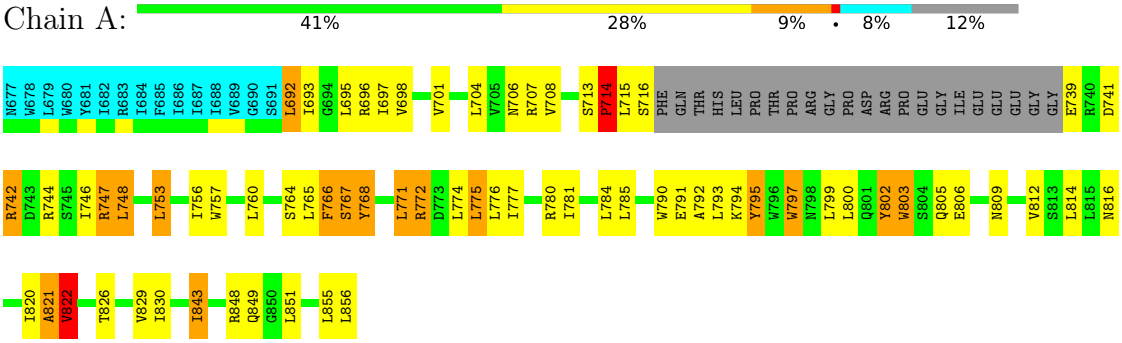
Chain C:



### 4.2.13 Score per residue for model 13

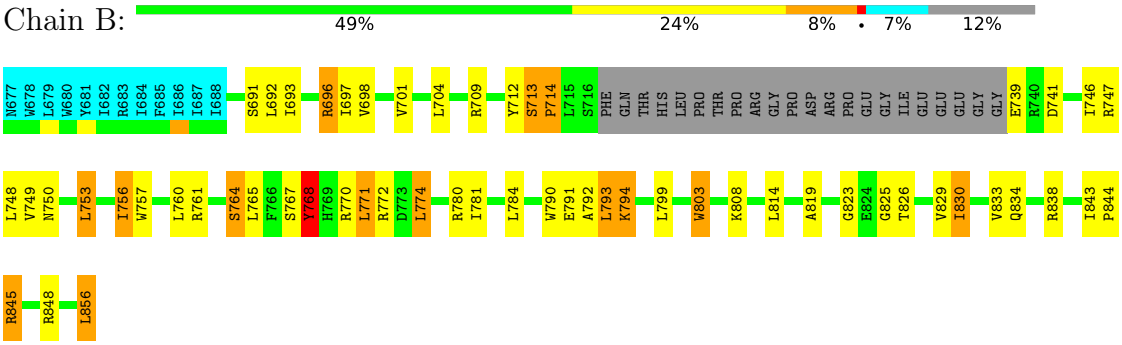
• Molecule 1: Transmembrane protein gp41

Chain A:



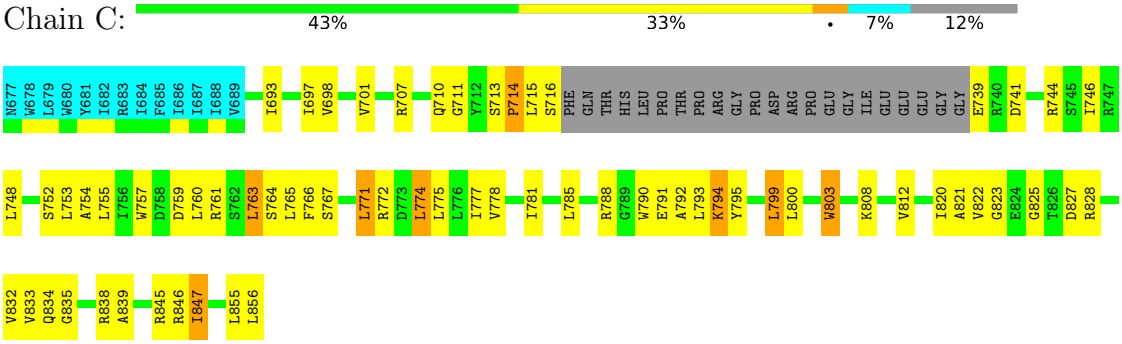

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

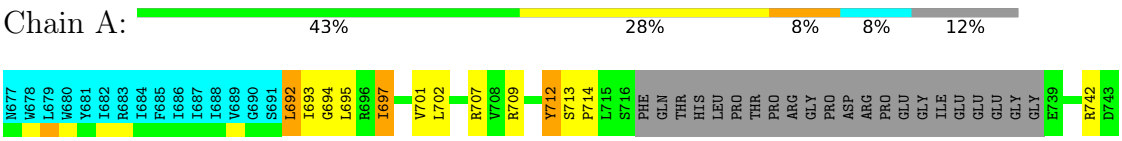
Chain C:

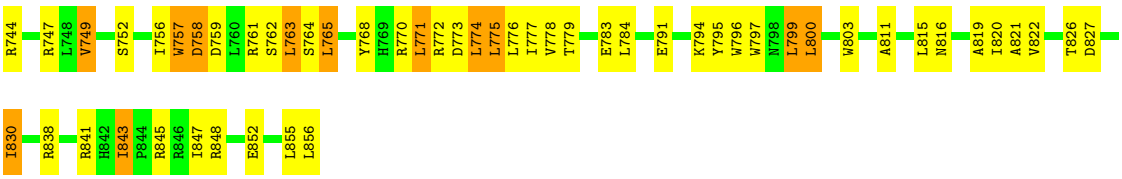



### 4.2.14 Score per residue for model 14

• Molecule 1: Transmembrane protein gp41

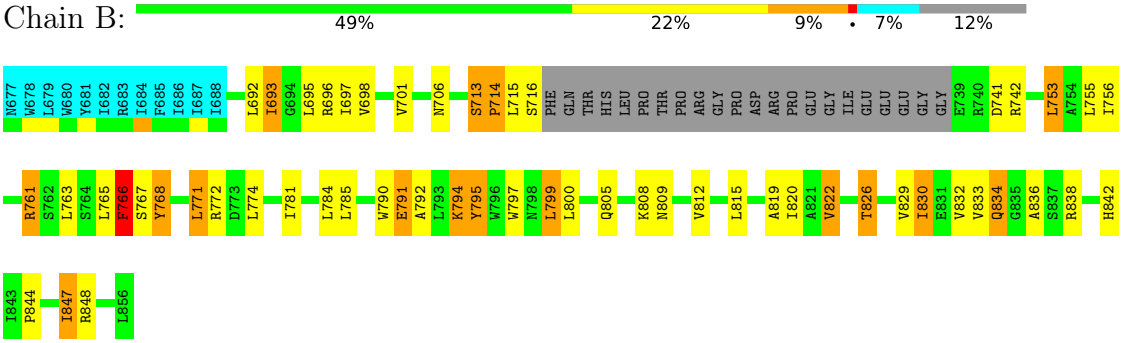
Chain A:





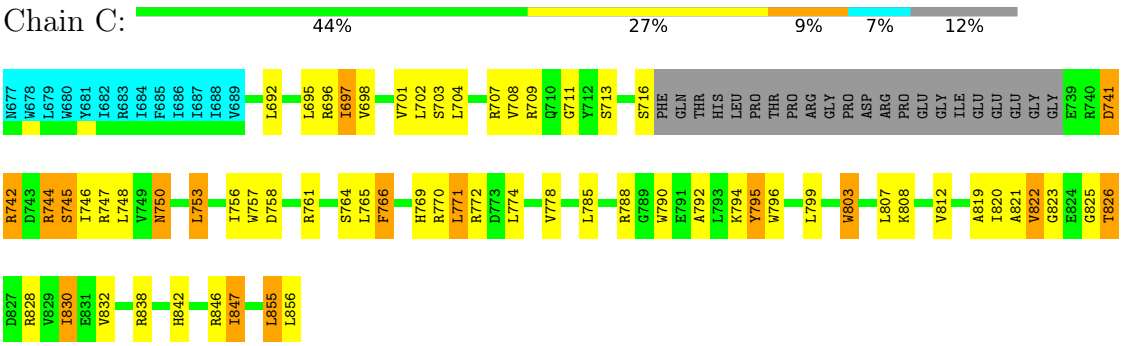

• Molecule 1: Transmembrane protein gp41

Chain B:




• Molecule 1: Transmembrane protein gp41

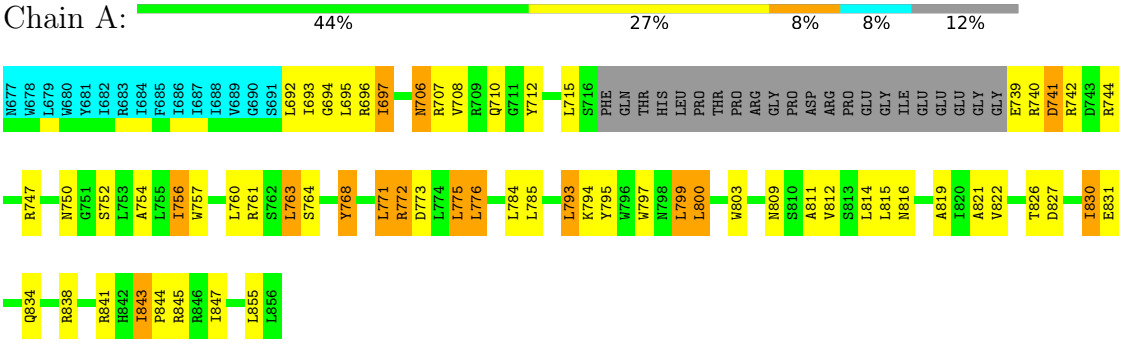
Chain C:




### 4.2.15 Score per residue for model 15

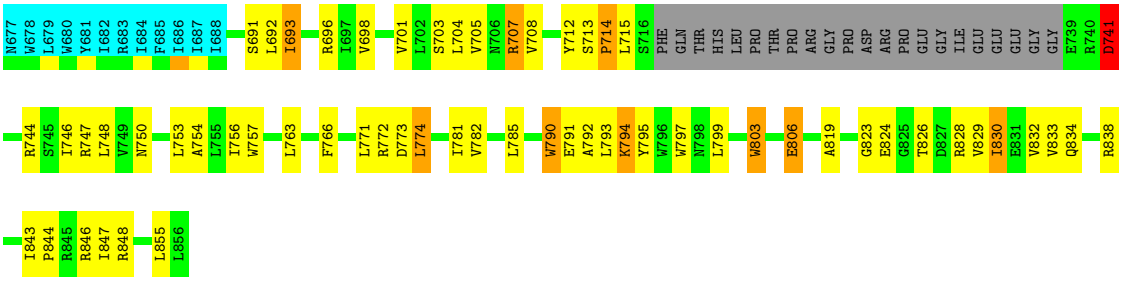
• Molecule 1: Transmembrane protein gp41

Chain A:



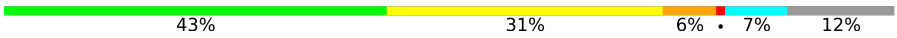

• Molecule 1: Transmembrane protein gp41

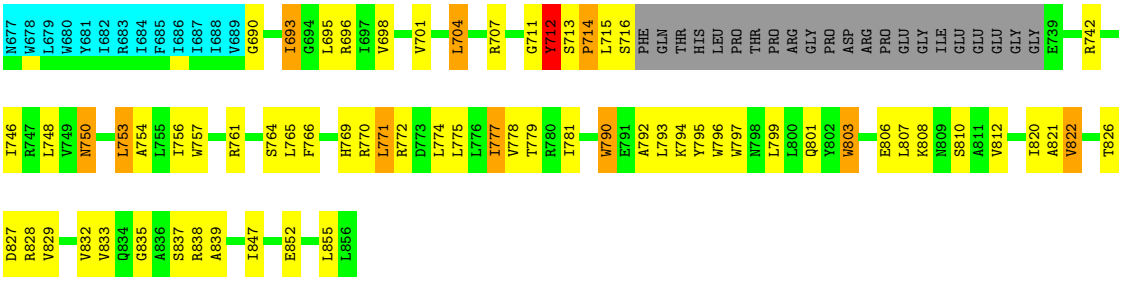
Chain B:




• Molecule 1: Transmembrane protein gp41

Chain C:



# 5 Refinement protocol and experimental data overview

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

Of the 150 calculated structures, 15 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 |
|---|---|---|
| X-PLOR NIH | refinement | |
| X-PLOR NIH | structure calculation | |

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

| Chemical shift file(s) | working_cs.cif |
|---|---|
| Number of chemical shift lists | 1 |
| Total number of shifts | 596 |
| Number of shifts mapped to atoms | 561 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 35 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 8% |

# 6 Model quality

## 6.1 Standard geometry

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

| Mol | Chain | Bond lengths | | Bond angles | |
|---|---|---|---|---|---|
| | | RMSZ | #Z>5 | RMSZ | #Z>5 |
| 1 | A | 0.81±0.01 | 0±0/1189 ( 0.0± 0.0%) | 0.96±0.02 | 0±1/1606 ( 0.0± 0.1%) |
| 1 | B | 0.79±0.01 | 0±0/1206 ( 0.0± 0.0%) | 0.96±0.01 | 0±0/1629 ( 0.0± 0.0%) |
| 1 | C | 0.80±0.01 | 0±0/1199 ( 0.0± 0.0%) | 0.97±0.01 | 0±0/1619 ( 0.0± 0.0%) |
| All | All | 0.80 | 0/53910 ( 0.0%) | 0.96 | 10/72810 ( 0.0%) |

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

| Mol | Chain | Chirality | Planarity |
|---|---|---|---|
| 1 | B | 0.0±0.0 | 0.1±0.3 |
| 1 | C | 0.0±0.0 | 0.1±0.2 |
| All | All | 0 | 3 |

There are no bond-length outliers.

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

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) | Models | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Worst | Total |
| 1 | A | 795 | TYR | CB-CG-CD1 | -6.37 | 117.18 | 121.00 | 13 | 1 |
| 1 | C | 742 | ARG | NE-CZ-NH2 | 5.65 | 123.12 | 120.30 | 14 | 1 |
| 1 | A | 712 | TYR | CB-CG-CD1 | -5.58 | 117.65 | 121.00 | 9 | 1 |
| 1 | B | 768 | TYR | CB-CG-CD2 | -5.30 | 117.82 | 121.00 | 13 | 1 |
| 1 | C | 795 | TYR | CB-CG-CD1 | -5.27 | 117.84 | 121.00 | 1 | 1 |
| 1 | A | 795 | TYR | CB-CG-CD2 | 5.18 | 124.11 | 121.00 | 13 | 1 |
| 1 | A | 747 | ARG | NE-CZ-NH2 | 5.11 | 122.85 | 120.30 | 13 | 1 |
| 1 | B | 747 | ARG | NE-CZ-NH2 | 5.06 | 122.83 | 120.30 | 9 | 1 |
| 1 | A | 797 | TRP | CB-CG-CD2 | 5.04 | 133.16 | 126.60 | 13 | 1 |
| 1 | C | 795 | TYR | CB-CG-CD2 | -5.01 | 117.99 | 121.00 | 6 | 1 |

There are no chirality outliers.

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

| Mol | Chain | Res | Type | Group | Models (Total) |
|---|---|---|---|---|---|
| 1 | C | 761 | ARG | Sidechain | 1 |
| 1 | B | 761 | ARG | Sidechain | 1 |
| 1 | B | 707 | ARG | Sidechain | 1 |

## 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 | 1171 | 1235 | 1232 | 48±8 |
| 1 | B | 1188 | 1252 | 1249 | 42±8 |
| 1 | C | 1181 | 1243 | 1240 | 42±5 |
| All | All | 53100 | 55950 | 55815 | 1674 |

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 15.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:HD12 | 0.89 | 1.41 | 1 | 1 |
| 1:A:692:LEU:HD12 | 1:A:693:ILE:N | 0.82 | 1.90 | 12 | 4 |
| 1:A:692:LEU:HD23 | 1:A:696:ARG:CZ | 0.80 | 2.06 | 13 | 1 |
| 1:B:771:LEU:HD22 | 1:B:772:ARG:N | 0.78 | 1.93 | 7 | 5 |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:CZ | 0.78 | 2.13 | 13 | 1 |
| 1:B:695:LEU:HD22 | 1:B:696:ARG:NH1 | 0.78 | 1.94 | 4 | 3 |
| 1:B:698:VAL:O | 1:B:701:VAL:HG22 | 0.76 | 1.79 | 15 | 15 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:NH1 | 0.76 | 1.96 | 11 | 1 |
| 1:A:771:LEU:HD22 | 1:A:772:ARG:N | 0.75 | 1.95 | 8 | 3 |
| 1:A:698:VAL:O | 1:A:701:VAL:HG22 | 0.75 | 1.82 | 6 | 4 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:ND2 | 0.75 | 1.97 | 7 | 11 |
| 1:B:713:SER:O | 1:B:714:PRO:O | 0.74 | 2.04 | 1 | 10 |
| 1:A:747:ARG:NE | 1:C:785:LEU:HD23 | 0.74 | 1.98 | 10 | 1 |
| 1:A:795:TYR:CD2 | 1:B:756:ILE:HG21 | 0.74 | 2.18 | 8 | 2 |
| 1:A:785:LEU:HD23 | 1:B:750:ASN:ND2 | 0.73 | 1.98 | 11 | 8 |
| 1:C:698:VAL:O | 1:C:701:VAL:HG22 | 0.73 | 1.83 | 4 | 15 |
| 1:C:764:SER:OG | 1:C:771:LEU:HD12 | 0.73 | 1.83 | 13 | 3 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:771:LEU:HD13 | 1:B:772:ARG:N | 0.73 | 1.98 | 9 | 3 |
| 1:B:704:LEU:O | 1:B:708:VAL:HG23 | 0.72 | 1.83 | 3 | 11 |
| 1:A:795:TYR:CG | 1:B:756:ILE:HG21 | 0.72 | 2.19 | 3 | 1 |
| 1:B:774:LEU:O | 1:B:778:VAL:HG23 | 0.72 | 1.83 | 8 | 6 |
| 1:C:763:LEU:O | 1:C:774:LEU:HD13 | 0.72 | 1.85 | 1 | 3 |
| 1:A:847:ILE:HD12 | 1:A:848:ARG:N | 0.72 | 2.00 | 14 | 2 |
| 1:B:799:LEU:HD13 | 1:B:800:LEU:N | 0.72 | 2.00 | 12 | 6 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:HG23 | 0.71 | 1.61 | 2 | 1 |
| 1:A:816:ASN:O | 1:A:820:ILE:HD12 | 0.71 | 1.84 | 5 | 7 |
| 1:A:793:LEU:HD11 | 1:A:847:ILE:CD1 | 0.70 | 2.16 | 1 | 4 |
| 1:A:763:LEU:HD22 | 1:A:764:SER:N | 0.70 | 2.01 | 15 | 8 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:CG2 | 0.69 | 2.18 | 8 | 5 |
| 1:B:781:ILE:CG2 | 1:C:746:ILE:HG21 | 0.69 | 2.17 | 13 | 2 |
| 1:A:763:LEU:O | 1:A:774:LEU:HD13 | 0.69 | 1.86 | 1 | 5 |
| 1:A:755:LEU:O | 1:A:755:LEU:HD23 | 0.69 | 1.87 | 12 | 4 |
| 1:B:693:ILE:HD13 | 1:B:693:ILE:O | 0.69 | 1.88 | 9 | 5 |
| 1:A:793:LEU:HD22 | 1:A:847:ILE:HD11 | 0.69 | 1.63 | 8 | 1 |
| 1:B:797:TRP:CD1 | 1:B:847:ILE:HG21 | 0.69 | 2.23 | 14 | 9 |
| 1:B:795:TYR:CB | 1:C:756:ILE:HG21 | 0.69 | 2.18 | 2 | 1 |
| 1:A:808:LYS:O | 1:A:812:VAL:HG23 | 0.68 | 1.87 | 12 | 6 |
| 1:C:748:LEU:HD13 | 1:C:748:LEU:O | 0.68 | 1.88 | 8 | 4 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:NH2 | 0.68 | 2.02 | 5 | 1 |
| 1:B:753:LEU:O | 1:B:756:ILE:HG22 | 0.68 | 1.89 | 3 | 5 |
| 1:C:777:ILE:HD13 | 1:C:778:VAL:N | 0.67 | 2.03 | 2 | 1 |
| 1:A:812:VAL:HG22 | 1:A:834:GLN:OE1 | 0.67 | 1.89 | 6 | 2 |
| 1:C:812:VAL:HG12 | 1:C:834:GLN:NE2 | 0.67 | 2.05 | 8 | 1 |
| 1:A:742:ARG:CZ | 1:A:746:ILE:HD11 | 0.67 | 2.19 | 13 | 1 |
| 1:C:704:LEU:HD22 | 1:C:707:ARG:NH2 | 0.67 | 2.04 | 15 | 1 |
| 1:B:799:LEU:CD1 | 1:B:800:LEU:HD22 | 0.67 | 2.19 | 3 | 1 |
| 1:A:692:LEU:HD13 | 1:A:693:ILE:N | 0.67 | 2.03 | 10 | 2 |
| 1:B:764:SER:OG | 1:B:771:LEU:HD12 | 0.67 | 1.88 | 13 | 2 |
| 1:C:774:LEU:HD13 | 1:C:777:ILE:CG1 | 0.67 | 2.20 | 13 | 1 |
| 1:A:799:LEU:CD2 | 1:B:760:LEU:HD13 | 0.66 | 2.20 | 5 | 2 |
| 1:A:795:TYR:CD1 | 1:B:756:ILE:HG21 | 0.66 | 2.25 | 3 | 1 |
| 1:A:764:SER:CB | 1:A:771:LEU:HD12 | 0.66 | 2.20 | 11 | 4 |
| 1:B:715:LEU:O | 1:B:715:LEU:HD23 | 0.66 | 1.90 | 12 | 2 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:CG2 | 0.66 | 2.21 | 14 | 3 |
| 1:A:816:ASN:OD1 | 1:A:830:ILE:HD11 | 0.66 | 1.89 | 6 | 5 |
| 1:A:755:LEU:HG | 1:B:715:LEU:HD21 | 0.66 | 1.68 | 12 | 1 |
| 1:C:763:LEU:HD22 | 1:C:764:SER:N | 0.66 | 2.06 | 13 | 1 |
| 1:A:759:ASP:OD2 | 1:A:763:LEU:HD11 | 0.66 | 1.89 | 14 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:793:LEU:HD12 | 1:A:847:ILE:HD11 | 0.66 | 1.65 | 6 | 3 |
| 1:C:697:ILE:HD13 | 1:C:697:ILE:O | 0.66 | 1.90 | 8 | 8 |
| 1:B:777:ILE:HD12 | 1:B:778:VAL:N | 0.66 | 2.06 | 7 | 3 |
| 1:A:785:LEU:HD21 | 1:B:747:ARG:HG2 | 0.66 | 1.66 | 9 | 2 |
| 1:A:795:TYR:CE2 | 1:B:756:ILE:HG21 | 0.66 | 2.26 | 8 | 1 |
| 1:A:764:SER:OG | 1:A:771:LEU:HD12 | 0.66 | 1.91 | 15 | 2 |
| 1:B:781:ILE:HD12 | 1:B:782:VAL:N | 0.66 | 2.05 | 15 | 1 |
| 1:A:774:LEU:HD23 | 1:A:775:LEU:N | 0.65 | 2.05 | 10 | 3 |
| 1:B:697:ILE:O | 1:B:697:ILE:HD13 | 0.65 | 1.91 | 2 | 1 |
| 1:C:778:VAL:O | 1:C:781:ILE:HG22 | 0.65 | 1.91 | 6 | 2 |
| 1:C:774:LEU:HD23 | 1:C:777:ILE:HG12 | 0.65 | 1.66 | 11 | 2 |
| 1:B:693:ILE:HD11 | 1:C:696:ARG:NE | 0.65 | 2.05 | 1 | 3 |
| 1:C:694:GLY:O | 1:C:697:ILE:HG22 | 0.65 | 1.92 | 10 | 5 |
| 1:B:756:ILE:HD13 | 1:B:756:ILE:O | 0.65 | 1.91 | 3 | 5 |
| 1:A:793:LEU:HD11 | 1:A:847:ILE:HG13 | 0.65 | 1.69 | 9 | 2 |
| 1:A:821:ALA:O | 1:A:822:VAL:HG13 | 0.65 | 1.91 | 1 | 4 |
| 1:B:791:GLU:O | 1:B:794:LYS:HG3 | 0.64 | 1.92 | 3 | 14 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:CG2 | 0.64 | 2.22 | 2 | 2 |
| 1:B:715:LEU:HD13 | 1:B:715:LEU:O | 0.64 | 1.92 | 1 | 1 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:HB | 0.64 | 1.69 | 8 | 7 |
| 1:A:771:LEU:HD12 | 1:A:771:LEU:C | 0.64 | 2.11 | 13 | 2 |
| 1:C:775:LEU:O | 1:C:778:VAL:HG22 | 0.64 | 1.92 | 7 | 9 |
| 1:C:764:SER:CB | 1:C:771:LEU:HD12 | 0.64 | 2.22 | 7 | 4 |
| 1:B:693:ILE:HD11 | 1:C:696:ARG:HG3 | 0.64 | 1.68 | 9 | 4 |
| 1:B:781:ILE:HG21 | 1:C:746:ILE:HG21 | 0.64 | 1.69 | 13 | 1 |
| 1:B:693:ILE:HD12 | 1:C:696:ARG:HG3 | 0.63 | 1.70 | 6 | 3 |
| 1:C:710:GLN:O | 1:C:715:LEU:HD12 | 0.63 | 1.93 | 5 | 1 |
| 1:A:791:GLU:CB | 1:B:753:LEU:HD22 | 0.63 | 2.24 | 11 | 3 |
| 1:C:806:GLU:CG | 1:C:807:LEU:HD22 | 0.63 | 2.23 | 7 | 1 |
| 1:B:693:ILE:HD11 | 1:C:696:ARG:CG | 0.63 | 2.24 | 9 | 3 |
| 1:A:800:LEU:HD22 | 1:A:803:TRP:CZ3 | 0.63 | 2.29 | 12 | 12 |
| 1:B:781:ILE:HG23 | 1:C:746:ILE:HG21 | 0.63 | 1.71 | 9 | 2 |
| 1:A:812:VAL:HG21 | 1:A:834:GLN:OE1 | 0.63 | 1.93 | 1 | 2 |
| 1:A:777:ILE:HD13 | 1:B:743:ASP:OD2 | 0.63 | 1.94 | 9 | 1 |
| 1:C:781:ILE:CD1 | 1:C:785:LEU:HD13 | 0.62 | 2.24 | 8 | 1 |
| 1:A:796:TRP:HE1 | 1:B:756:ILE:HD12 | 0.62 | 1.54 | 12 | 2 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:HG21 | 0.62 | 1.70 | 3 | 1 |
| 1:A:697:ILE:O | 1:A:697:ILE:HD13 | 0.62 | 1.94 | 1 | 9 |
| 1:A:793:LEU:O | 1:A:793:LEU:HD13 | 0.62 | 1.92 | 11 | 3 |
| 1:C:704:LEU:HD13 | 1:C:707:ARG:CZ | 0.62 | 2.24 | 3 | 1 |
| 1:C:764:SER:O | 1:C:765:LEU:HD23 | 0.62 | 1.94 | 1 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:759:ASP:O | 1:A:763:LEU:HD12 | 0.62 | 1.95 | 11 | 3 |
| 1:A:742:ARG:NH2 | 1:A:746:ILE:HD11 | 0.62 | 2.09 | 13 | 1 |
| 1:A:748:LEU:HD21 | 1:B:714:PRO:HG2 | 0.62 | 1.71 | 1 | 1 |
| 1:A:746:ILE:HG12 | 1:C:781:ILE:HD12 | 0.62 | 1.70 | 11 | 3 |
| 1:C:771:LEU:HA | 1:C:774:LEU:HD12 | 0.62 | 1.71 | 11 | 1 |
| 1:A:768:TYR:CZ | 1:A:771:LEU:HD23 | 0.62 | 2.30 | 13 | 1 |
| 1:C:806:GLU:HG3 | 1:C:807:LEU:HD22 | 0.62 | 1.69 | 7 | 2 |
| 1:B:790:TRP:CZ2 | 1:B:793:LEU:HD13 | 0.61 | 2.30 | 1 | 3 |
| 1:C:756:ILE:O | 1:C:756:ILE:HD13 | 0.61 | 1.93 | 5 | 1 |
| 1:A:692:LEU:HD23 | 1:C:693:ILE:HG21 | 0.61 | 1.71 | 9 | 1 |
| 1:A:800:LEU:HD22 | 1:A:803:TRP:CH2 | 0.61 | 2.30 | 13 | 5 |
| 1:B:774:LEU:CD2 | 1:B:777:ILE:HD11 | 0.61 | 2.24 | 9 | 2 |
| 1:A:764:SER:HB3 | 1:A:771:LEU:HD12 | 0.61 | 1.72 | 4 | 5 |
| 1:B:774:LEU:HD12 | 1:B:775:LEU:N | 0.61 | 2.10 | 10 | 1 |
| 1:A:715:LEU:HB3 | 1:C:754:ALA:HB1 | 0.61 | 1.72 | 11 | 3 |
| 1:C:762:SER:O | 1:C:774:LEU:HD22 | 0.61 | 1.96 | 6 | 2 |
| 1:A:715:LEU:HD21 | 1:C:758:ASP:CG | 0.61 | 2.16 | 2 | 1 |
| 1:A:745:SER:O | 1:A:749:VAL:HG23 | 0.61 | 1.95 | 12 | 1 |
| 1:A:746:ILE:HG21 | 1:C:781:ILE:HG23 | 0.61 | 1.72 | 1 | 1 |
| 1:A:763:LEU:HD13 | 1:A:764:SER:H | 0.61 | 1.55 | 10 | 3 |
| 1:B:756:ILE:HG23 | 1:B:757:TRP:CE3 | 0.61 | 2.30 | 8 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:HG2 | 0.61 | 1.73 | 12 | 1 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:HG22 | 0.61 | 1.72 | 12 | 2 |
| 1:A:816:ASN:HD22 | 1:A:830:ILE:HD11 | 0.60 | 1.56 | 3 | 1 |
| 1:B:763:LEU:HD23 | 1:B:764:SER:H | 0.60 | 1.55 | 10 | 1 |
| 1:B:694:GLY:O | 1:B:697:ILE:HG22 | 0.60 | 1.96 | 2 | 1 |
| 1:B:795:TYR:CG | 1:C:756:ILE:HG21 | 0.60 | 2.30 | 2 | 1 |
| 1:C:753:LEU:O | 1:C:756:ILE:HG22 | 0.60 | 1.96 | 2 | 5 |
| 1:C:774:LEU:HD23 | 1:C:777:ILE:CG1 | 0.60 | 2.26 | 4 | 2 |
| 1:A:799:LEU:HB3 | 1:A:803:TRP:CH2 | 0.60 | 2.31 | 14 | 5 |
| 1:B:705:VAL:HG21 | 1:B:748:LEU:HD22 | 0.60 | 1.72 | 8 | 2 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:HG22 | 0.60 | 1.74 | 8 | 2 |
| 1:B:774:LEU:HD13 | 1:B:774:LEU:O | 0.60 | 1.97 | 4 | 4 |
| 1:A:755:LEU:HB2 | 1:B:715:LEU:HD22 | 0.59 | 1.75 | 4 | 1 |
| 1:A:816:ASN:O | 1:A:820:ILE:HD13 | 0.59 | 1.96 | 14 | 2 |
| 1:C:826:THR:O | 1:C:830:ILE:HG22 | 0.59 | 1.98 | 1 | 2 |
| 1:C:820:ILE:O | 1:C:822:VAL:HG12 | 0.59 | 1.97 | 5 | 2 |
| 1:A:781:ILE:CG1 | 1:B:746:ILE:HG21 | 0.59 | 2.27 | 7 | 1 |
| 1:B:791:GLU:CD | 1:C:753:LEU:HD22 | 0.59 | 2.18 | 8 | 1 |
| 1:C:765:LEU:HD13 | 1:C:774:LEU:HD21 | 0.59 | 1.74 | 11 | 1 |
| 1:A:791:GLU:HB2 | 1:B:753:LEU:HD22 | 0.59 | 1.73 | 11 | 4 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:713:SER:O | 1:A:714:PRO:O | 0.59 | 2.20 | 13 | 3 |
| 1:C:792:ALA:HA | 1:C:795:TYR:CZ | 0.59 | 2.33 | 7 | 3 |
| 1:C:748:LEU:HD22 | 1:C:748:LEU:O | 0.59 | 1.98 | 1 | 1 |
| 1:A:755:LEU:HD12 | 1:B:715:LEU:HD11 | 0.59 | 1.75 | 11 | 1 |
| 1:A:811:ALA:HB1 | 1:A:815:LEU:CD1 | 0.59 | 2.27 | 5 | 4 |
| 1:C:755:LEU:HD23 | 1:C:755:LEU:O | 0.59 | 1.97 | 7 | 1 |
| 1:A:750:ASN:OD1 | 1:C:785:LEU:HD23 | 0.58 | 1.97 | 2 | 1 |
| 1:A:793:LEU:HD11 | 1:A:847:ILE:HD11 | 0.58 | 1.75 | 4 | 3 |
| 1:A:799:LEU:HD11 | 1:B:756:ILE:HG21 | 0.58 | 1.73 | 4 | 1 |
| 1:B:774:LEU:O | 1:B:774:LEU:HD13 | 0.58 | 1.97 | 8 | 1 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:CB | 0.58 | 2.29 | 7 | 1 |
| 1:B:695:LEU:HD23 | 1:B:695:LEU:O | 0.58 | 1.99 | 3 | 6 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:OG1 | 0.58 | 1.97 | 13 | 4 |
| 1:A:713:SER:HB2 | 1:C:708:VAL:HG23 | 0.58 | 1.73 | 12 | 1 |
| 1:A:816:ASN:CG | 1:A:830:ILE:HD11 | 0.58 | 2.18 | 7 | 4 |
| 1:B:785:LEU:HD21 | 1:C:747:ARG:HG2 | 0.58 | 1.76 | 7 | 1 |
| 1:C:799:LEU:O | 1:C:803:TRP:CE3 | 0.58 | 2.57 | 2 | 8 |
| 1:A:812:VAL:HG22 | 1:A:834:GLN:HG3 | 0.58 | 1.74 | 12 | 2 |
| 1:A:696:ARG:HE | 1:C:693:ILE:HD11 | 0.58 | 1.59 | 15 | 6 |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:CE1 | 0.58 | 2.34 | 13 | 1 |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:HB3 | 0.57 | 1.75 | 2 | 2 |
| 1:A:793:LEU:HD12 | 1:A:847:ILE:CD1 | 0.57 | 2.29 | 6 | 1 |
| 1:C:710:GLN:O | 1:C:715:LEU:HD13 | 0.57 | 1.99 | 13 | 1 |
| 1:A:748:LEU:HD21 | 1:B:714:PRO:CG | 0.57 | 2.29 | 1 | 1 |
| 1:B:771:LEU:H | 1:B:771:LEU:HD13 | 0.57 | 1.58 | 1 | 3 |
| 1:B:771:LEU:HD13 | 1:B:772:ARG:H | 0.57 | 1.57 | 12 | 3 |
| 1:C:693:ILE:HD12 | 1:C:693:ILE:O | 0.57 | 2.00 | 11 | 4 |
| 1:A:763:LEU:HD13 | 1:A:764:SER:N | 0.57 | 2.15 | 10 | 3 |
| 1:A:763:LEU:HD22 | 1:A:763:LEU:C | 0.57 | 2.20 | 11 | 10 |
| 1:A:781:ILE:HG23 | 1:B:746:ILE:HG12 | 0.57 | 1.76 | 13 | 1 |
| 1:A:793:LEU:C | 1:A:793:LEU:HD13 | 0.57 | 2.19 | 9 | 6 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:HB | 0.57 | 1.75 | 10 | 4 |
| 1:C:830:ILE:HD13 | 1:C:830:ILE:O | 0.57 | 1.99 | 9 | 2 |
| 1:C:742:ARG:O | 1:C:746:ILE:HD12 | 0.57 | 2.00 | 12 | 1 |
| 1:B:774:LEU:HD22 | 1:B:777:ILE:HD11 | 0.57 | 1.76 | 12 | 4 |
| 1:A:812:VAL:HG22 | 1:A:834:GLN:CD | 0.57 | 2.20 | 6 | 1 |
| 1:A:821:ALA:O | 1:A:822:VAL:HG22 | 0.57 | 1.99 | 5 | 1 |
| 1:B:760:LEU:C | 1:B:760:LEU:HD23 | 0.57 | 2.20 | 13 | 5 |
| 1:A:775:LEU:HD23 | 1:A:776:LEU:N | 0.57 | 2.15 | 12 | 9 |
| 1:C:774:LEU:O | 1:C:777:ILE:HG13 | 0.57 | 2.00 | 10 | 1 |
| 1:C:765:LEU:HB2 | 1:C:774:LEU:HD21 | 0.56 | 1.77 | 13 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:715:LEU:HD11 | 1:C:739:GLU:OE1 | 0.56 | 2.00 | 5 | 1 |
| 1:A:855:LEU:C | 1:A:856:LEU:HD23 | 0.56 | 2.21 | 5 | 3 |
| 1:B:774:LEU:HD21 | 1:C:742:ARG:CZ | 0.56 | 2.30 | 9 | 1 |
| 1:C:790:TRP:CZ2 | 1:C:793:LEU:HD13 | 0.56 | 2.35 | 13 | 1 |
| 1:B:781:ILE:HD13 | 1:C:746:ILE:HG21 | 0.56 | 1.76 | 15 | 1 |
| 1:A:771:LEU:HD12 | 1:A:772:ARG:N | 0.56 | 2.15 | 1 | 3 |
| 1:A:763:LEU:O | 1:A:774:LEU:HD22 | 0.56 | 2.00 | 2 | 1 |
| 1:C:820:ILE:O | 1:C:822:VAL:N | 0.56 | 2.38 | 9 | 8 |
| 1:B:765:LEU:HD12 | 1:B:774:LEU:HD23 | 0.56 | 1.76 | 9 | 1 |
| 1:B:797:TRP:NE1 | 1:B:847:ILE:HG21 | 0.56 | 2.16 | 10 | 1 |
| 1:A:692:LEU:HD13 | 1:C:693:ILE:HG12 | 0.56 | 1.77 | 12 | 1 |
| 1:C:829:VAL:O | 1:C:833:VAL:HG22 | 0.56 | 1.99 | 7 | 8 |
| 1:A:754:ALA:HB3 | 1:B:715:LEU:O | 0.56 | 2.00 | 15 | 2 |
| 1:C:771:LEU:H | 1:C:771:LEU:HD13 | 0.56 | 1.59 | 4 | 8 |
| 1:A:793:LEU:O | 1:A:793:LEU:HD23 | 0.56 | 2.00 | 8 | 1 |
| 1:A:799:LEU:HD23 | 1:A:803:TRP:CZ2 | 0.56 | 2.36 | 15 | 3 |
| 1:C:771:LEU:HD22 | 1:C:771:LEU:N | 0.56 | 2.15 | 10 | 11 |
| 1:A:777:ILE:HD12 | 1:A:778:VAL:N | 0.56 | 2.15 | 9 | 3 |
| 1:A:713:SER:CB | 1:C:708:VAL:HG23 | 0.56 | 2.30 | 12 | 1 |
| 1:B:791:GLU:HB2 | 1:C:753:LEU:HD22 | 0.55 | 1.78 | 1 | 1 |
| 1:A:708:VAL:HG21 | 1:B:714:PRO:HD2 | 0.55 | 1.77 | 7 | 2 |
| 1:A:785:LEU:CD2 | 1:B:749:VAL:HG13 | 0.55 | 2.31 | 13 | 1 |
| 1:A:795:TYR:O | 1:A:799:LEU:HD12 | 0.55 | 2.02 | 4 | 2 |
| 1:A:763:LEU:HD12 | 1:A:763:LEU:H | 0.55 | 1.61 | 7 | 1 |
| 1:A:747:ARG:HE | 1:C:785:LEU:HD23 | 0.55 | 1.59 | 10 | 1 |
| 1:A:763:LEU:N | 1:A:763:LEU:HD13 | 0.55 | 2.16 | 14 | 1 |
| 1:B:830:ILE:HD13 | 1:B:830:ILE:O | 0.55 | 2.02 | 3 | 9 |
| 1:A:802:TYR:OH | 1:B:760:LEU:HD21 | 0.55 | 2.00 | 2 | 2 |
| 1:C:764:SER:O | 1:C:765:LEU:HB2 | 0.55 | 2.02 | 5 | 1 |
| 1:A:796:TRP:NE1 | 1:B:756:ILE:HD12 | 0.55 | 2.17 | 14 | 2 |
| 1:C:748:LEU:HD13 | 1:C:749:VAL:N | 0.55 | 2.16 | 1 | 1 |
| 1:C:765:LEU:HB2 | 1:C:774:LEU:HD11 | 0.55 | 1.77 | 11 | 3 |
| 1:A:781:ILE:HD12 | 1:B:746:ILE:HG12 | 0.55 | 1.77 | 13 | 2 |
| 1:A:820:ILE:O | 1:A:822:VAL:N | 0.55 | 2.40 | 1 | 3 |
| 1:B:774:LEU:HD13 | 1:B:777:ILE:HD11 | 0.55 | 1.78 | 1 | 2 |
| 1:C:840:ILE:HD13 | 1:C:840:ILE:O | 0.55 | 2.01 | 2 | 1 |
| 1:A:764:SER:O | 1:A:770:ARG:HB2 | 0.55 | 2.01 | 14 | 3 |
| 1:A:756:ILE:HG23 | 1:C:795:TYR:HB2 | 0.55 | 1.78 | 9 | 3 |
| 1:A:795:TYR:HB3 | 1:B:756:ILE:HG21 | 0.55 | 1.79 | 9 | 1 |
| 1:C:777:ILE:HD12 | 1:C:778:VAL:N | 0.55 | 2.17 | 10 | 2 |
| 1:B:704:LEU:HD11 | 1:C:712:TYR:CD2 | 0.55 | 2.37 | 15 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:771:LEU:H | 1:A:771:LEU:HD13 | 0.54 | 1.62 | 2 | 7 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG22 | 0.54 | 2.02 | 1 | 1 |
| 1:C:792:ALA:O | 1:C:795:TYR:CD2 | 0.54 | 2.61 | 10 | 5 |
| 1:A:709:ARG:CZ | 1:C:761:ARG:CZ | 0.54 | 2.85 | 9 | 1 |
| 1:A:749:VAL:HG21 | 1:C:781:ILE:HD11 | 0.54 | 1.79 | 9 | 1 |
| 1:B:797:TRP:CE2 | 1:B:847:ILE:HD13 | 0.54 | 2.38 | 14 | 3 |
| 1:A:693:ILE:HD12 | 1:A:694:GLY:N | 0.54 | 2.18 | 15 | 6 |
| 1:A:785:LEU:HD13 | 1:B:750:ASN:CG | 0.54 | 2.22 | 13 | 1 |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:CD1 | 0.54 | 2.25 | 1 | 1 |
| 1:C:768:TYR:CD2 | 1:C:771:LEU:HD11 | 0.54 | 2.37 | 3 | 1 |
| 1:B:753:LEU:HD12 | 1:B:754:ALA:N | 0.54 | 2.18 | 12 | 6 |
| 1:C:695:LEU:HD22 | 1:C:696:ARG:HH22 | 0.54 | 1.63 | 15 | 2 |
| 1:C:808:LYS:O | 1:C:812:VAL:HG13 | 0.54 | 2.02 | 8 | 1 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:CA | 0.54 | 2.33 | 14 | 1 |
| 1:B:704:LEU:HD22 | 1:C:712:TYR:CB | 0.54 | 2.32 | 6 | 1 |
| 1:A:705:VAL:HG13 | 1:A:748:LEU:CD2 | 0.54 | 2.33 | 7 | 1 |
| 1:A:753:LEU:HA | 1:C:795:TYR:CD1 | 0.54 | 2.37 | 7 | 1 |
| 1:A:826:THR:O | 1:A:829:VAL:HG22 | 0.54 | 2.03 | 3 | 8 |
| 1:B:697:ILE:HD12 | 1:B:698:VAL:N | 0.54 | 2.17 | 3 | 5 |
| 1:A:795:TYR:C | 1:A:799:LEU:HD12 | 0.54 | 2.23 | 4 | 1 |
| 1:A:811:ALA:HB1 | 1:A:815:LEU:HD12 | 0.54 | 1.78 | 5 | 3 |
| 1:A:815:LEU:HB2 | 1:A:830:ILE:HD13 | 0.54 | 1.80 | 5 | 1 |
| 1:A:843:ILE:H | 1:A:843:ILE:HD13 | 0.54 | 1.62 | 2 | 12 |
| 1:A:692:LEU:HD22 | 1:A:692:LEU:C | 0.54 | 2.22 | 13 | 2 |
| 1:A:693:ILE:HG22 | 1:C:693:ILE:HG21 | 0.54 | 1.80 | 13 | 1 |
| 1:C:760:LEU:O | 1:C:760:LEU:HD23 | 0.53 | 2.03 | 7 | 1 |
| 1:B:774:LEU:HD12 | 1:B:775:LEU:H | 0.53 | 1.62 | 10 | 1 |
| 1:B:778:VAL:O | 1:B:781:ILE:HG22 | 0.53 | 2.03 | 2 | 2 |
| 1:B:751:GLY:O | 1:B:754:ALA:HB3 | 0.53 | 2.03 | 7 | 1 |
| 1:A:812:VAL:HG21 | 1:A:834:GLN:CG | 0.53 | 2.33 | 10 | 1 |
| 1:A:768:TYR:OH | 1:A:771:LEU:HD23 | 0.53 | 2.03 | 13 | 1 |
| 1:A:742:ARG:NH2 | 1:C:774:LEU:HD12 | 0.53 | 2.18 | 2 | 1 |
| 1:C:753:LEU:HD12 | 1:C:754:ALA:N | 0.53 | 2.18 | 2 | 1 |
| 1:A:695:LEU:O | 1:A:698:VAL:HG12 | 0.53 | 2.04 | 2 | 7 |
| 1:A:715:LEU:O | 1:C:754:ALA:HB3 | 0.53 | 2.04 | 1 | 1 |
| 1:B:693:ILE:HD11 | 1:C:696:ARG:HE | 0.53 | 1.63 | 1 | 1 |
| 1:C:797:TRP:CD1 | 1:C:847:ILE:HD11 | 0.53 | 2.38 | 15 | 3 |
| 1:B:791:GLU:OE1 | 1:C:753:LEU:HD22 | 0.53 | 2.04 | 8 | 1 |
| 1:B:803:TRP:N | 1:B:803:TRP:CE3 | 0.53 | 2.76 | 12 | 14 |
| 1:B:795:TYR:HB3 | 1:C:756:ILE:HG21 | 0.53 | 1.81 | 2 | 1 |
| 1:B:803:TRP:N | 1:B:803:TRP:HE3 | 0.53 | 2.01 | 6 | 11 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:756:ILE:HD12 | 1:C:795:TYR:O | 0.53 | 2.03 | 6 | 1 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:HG21 | 0.53 | 1.79 | 15 | 1 |
| 1:A:747:ARG:HA | 1:C:785:LEU:HD23 | 0.53 | 1.80 | 1 | 1 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:HD21 | 0.53 | 1.64 | 7 | 2 |
| 1:C:803:TRP:N | 1:C:803:TRP:CE3 | 0.52 | 2.76 | 8 | 8 |
| 1:B:695:LEU:HD22 | 1:B:696:ARG:HH11 | 0.52 | 1.63 | 3 | 1 |
| 1:C:830:ILE:HG23 | 1:C:831:GLU:OE1 | 0.52 | 2.04 | 1 | 1 |
| 1:C:795:TYR:O | 1:C:799:LEU:HB2 | 0.52 | 2.04 | 8 | 2 |
| 1:C:763:LEU:HD23 | 1:C:764:SER:N | 0.52 | 2.18 | 1 | 2 |
| 1:A:799:LEU:HD21 | 1:B:760:LEU:HD13 | 0.52 | 1.80 | 5 | 1 |
| 1:A:702:LEU:O | 1:A:705:VAL:HG23 | 0.52 | 2.04 | 11 | 1 |
| 1:C:756:ILE:C | 1:C:756:ILE:HD13 | 0.52 | 2.25 | 2 | 1 |
| 1:A:774:LEU:O | 1:A:778:VAL:HG23 | 0.52 | 2.05 | 12 | 6 |
| 1:C:765:LEU:CB | 1:C:774:LEU:HD21 | 0.52 | 2.34 | 13 | 1 |
| 1:A:768:TYR:CD2 | 1:C:803:TRP:CD2 | 0.52 | 2.98 | 1 | 1 |
| 1:A:692:LEU:HD21 | 1:C:693:ILE:CD1 | 0.52 | 2.35 | 10 | 2 |
| 1:B:829:VAL:O | 1:B:833:VAL:HG12 | 0.52 | 2.05 | 9 | 11 |
| 1:B:704:LEU:HD22 | 1:C:712:TYR:HB3 | 0.52 | 1.82 | 6 | 1 |
| 1:B:829:VAL:O | 1:B:833:VAL:HG23 | 0.52 | 2.05 | 8 | 1 |
| 1:C:774:LEU:O | 1:C:778:VAL:HG13 | 0.52 | 2.04 | 14 | 1 |
| 1:B:705:VAL:CG2 | 1:B:748:LEU:HD22 | 0.52 | 2.35 | 8 | 1 |
| 1:B:754:ALA:HB1 | 1:C:715:LEU:O | 0.52 | 2.05 | 3 | 3 |
| 1:A:760:LEU:O | 1:A:763:LEU:HD13 | 0.51 | 2.06 | 8 | 2 |
| 1:A:785:LEU:HD23 | 1:B:750:ASN:CG | 0.51 | 2.26 | 6 | 3 |
| 1:B:794:LYS:HD3 | 1:B:795:TYR:N | 0.51 | 2.20 | 2 | 1 |
| 1:A:816:ASN:ND2 | 1:A:830:ILE:HD11 | 0.51 | 2.20 | 13 | 2 |
| 1:A:751:GLY:O | 1:A:754:ALA:HB3 | 0.51 | 2.04 | 12 | 1 |
| 1:A:771:LEU:C | 1:A:771:LEU:CD1 | 0.51 | 2.79 | 13 | 2 |
| 1:A:816:ASN:HB2 | 1:A:830:ILE:HD11 | 0.51 | 1.82 | 8 | 2 |
| 1:A:830:ILE:C | 1:A:830:ILE:HD12 | 0.51 | 2.26 | 13 | 13 |
| 1:A:781:ILE:HB | 1:B:746:ILE:HG21 | 0.51 | 1.81 | 2 | 1 |
| 1:C:756:ILE:HD13 | 1:C:756:ILE:O | 0.51 | 2.05 | 2 | 1 |
| 1:C:760:LEU:HD21 | 1:C:768:TYR:OH | 0.51 | 2.05 | 5 | 1 |
| 1:A:709:ARG:O | 1:C:761:ARG:NH1 | 0.51 | 2.43 | 8 | 1 |
| 1:A:768:TYR:CE2 | 1:A:771:LEU:HD23 | 0.51 | 2.40 | 1 | 1 |
| 1:C:745:SER:O | 1:C:748:LEU:HD23 | 0.51 | 2.05 | 3 | 1 |
| 1:B:754:ALA:HB1 | 1:C:715:LEU:HB3 | 0.51 | 1.82 | 7 | 1 |
| 1:C:765:LEU:HD13 | 1:C:774:LEU:HD11 | 0.51 | 1.83 | 2 | 1 |
| 1:B:794:LYS:HD2 | 1:C:753:LEU:HD13 | 0.51 | 1.82 | 3 | 1 |
| 1:A:704:LEU:HD12 | 1:B:712:TYR:O | 0.51 | 2.06 | 6 | 1 |
| 1:C:797:TRP:NE1 | 1:C:847:ILE:HD11 | 0.51 | 2.21 | 15 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:793:LEU:HD11 | 1:A:847:ILE:CG1 | 0.51 | 2.35 | 4 | 3 |
| 1:A:748:LEU:HD23 | 1:B:714:PRO:CG | 0.51 | 2.36 | 5 | 2 |
| 1:A:697:ILE:HD11 | 1:B:696:ARG:HD2 | 0.51 | 1.82 | 13 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:HG3 | 0.51 | 1.82 | 1 | 2 |
| 1:A:694:GLY:O | 1:A:697:ILE:HG22 | 0.51 | 2.06 | 1 | 5 |
| 1:A:760:LEU:HD13 | 1:C:799:LEU:HD11 | 0.51 | 1.82 | 1 | 2 |
| 1:A:760:LEU:HD23 | 1:A:760:LEU:O | 0.51 | 2.05 | 12 | 3 |
| 1:C:771:LEU:HD22 | 1:C:771:LEU:H | 0.51 | 1.64 | 3 | 6 |
| 1:A:695:LEU:HD23 | 1:A:695:LEU:O | 0.51 | 2.06 | 5 | 2 |
| 1:C:748:LEU:C | 1:C:748:LEU:HD13 | 0.51 | 2.26 | 14 | 4 |
| 1:A:706:ASN:OD1 | 1:C:704:LEU:HD11 | 0.51 | 2.05 | 9 | 1 |
| 1:C:763:LEU:O | 1:C:774:LEU:HD22 | 0.50 | 2.06 | 3 | 1 |
| 1:B:765:LEU:CD1 | 1:B:774:LEU:HD23 | 0.50 | 2.37 | 9 | 1 |
| 1:C:803:TRP:N | 1:C:803:TRP:HE3 | 0.50 | 2.04 | 7 | 11 |
| 1:A:710:GLN:OE1 | 1:C:704:LEU:HD21 | 0.50 | 2.06 | 3 | 1 |
| 1:A:856:LEU:HD12 | 1:A:856:LEU:O | 0.50 | 2.06 | 6 | 1 |
| 1:C:778:VAL:O | 1:C:782:VAL:HG23 | 0.50 | 2.07 | 10 | 1 |
| 1:C:828:ARG:O | 1:C:832:VAL:HG23 | 0.50 | 2.05 | 3 | 14 |
| 1:C:695:LEU:O | 1:C:698:VAL:HG12 | 0.50 | 2.05 | 4 | 4 |
| 1:A:746:ILE:CG1 | 1:C:781:ILE:HG23 | 0.50 | 2.37 | 11 | 1 |
| 1:A:746:ILE:HG21 | 1:C:781:ILE:HG13 | 0.50 | 1.81 | 3 | 1 |
| 1:A:772:ARG:O | 1:A:775:LEU:HD22 | 0.50 | 2.05 | 3 | 5 |
| 1:A:768:TYR:CZ | 1:C:803:TRP:CZ3 | 0.50 | 2.98 | 8 | 1 |
| 1:C:815:LEU:HB3 | 1:C:830:ILE:HD11 | 0.50 | 1.84 | 8 | 3 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:HA | 0.50 | 1.83 | 14 | 1 |
| 1:B:756:ILE:HD13 | 1:B:756:ILE:C | 0.50 | 2.26 | 3 | 2 |
| 1:B:799:LEU:O | 1:B:803:TRP:CE3 | 0.50 | 2.65 | 8 | 4 |
| 1:B:797:TRP:NE1 | 1:B:847:ILE:HD13 | 0.50 | 2.21 | 9 | 2 |
| 1:A:800:LEU:HD22 | 1:A:803:TRP:HZ3 | 0.50 | 1.65 | 14 | 3 |
| 1:C:830:ILE:HG23 | 1:C:831:GLU:CD | 0.50 | 2.27 | 1 | 1 |
| 1:A:755:LEU:HD12 | 1:B:715:LEU:CD1 | 0.50 | 2.37 | 3 | 1 |
| 1:B:806:GLU:HB3 | 1:C:771:LEU:HD21 | 0.50 | 1.84 | 7 | 3 |
| 1:C:847:ILE:H | 1:C:847:ILE:HD13 | 0.50 | 1.66 | 13 | 5 |
| 1:C:756:ILE:CD1 | 1:C:760:LEU:HD12 | 0.50 | 2.37 | 7 | 1 |
| 1:A:797:TRP:CG | 1:A:847:ILE:HD11 | 0.50 | 2.42 | 9 | 1 |
| 1:C:795:TYR:CZ | 1:C:796:TRP:NE1 | 0.50 | 2.79 | 14 | 2 |
| 1:A:693:ILE:HD12 | 1:A:693:ILE:O | 0.50 | 2.06 | 8 | 1 |
| 1:C:761:ARG:O | 1:C:765:LEU:HD12 | 0.50 | 2.07 | 8 | 1 |
| 1:A:753:LEU:HD22 | 1:C:791:GLU:OE2 | 0.50 | 2.07 | 12 | 1 |
| 1:A:763:LEU:HD13 | 1:A:763:LEU:H | 0.50 | 1.67 | 14 | 1 |
| 1:B:795:TYR:CG | 1:C:756:ILE:HB | 0.50 | 2.42 | 14 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:713:SER:O | 1:A:714:PRO:C | 0.49 | 2.51 | 2 | 7 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:HD3 | 0.49 | 1.83 | 2 | 2 |
| 1:B:693:ILE:HD11 | 1:C:696:ARG:CD | 0.49 | 2.37 | 4 | 3 |
| 1:A:696:ARG:NE | 1:C:693:ILE:HD11 | 0.49 | 2.21 | 15 | 5 |
| 1:B:795:TYR:O | 1:C:756:ILE:HD12 | 0.49 | 2.06 | 9 | 1 |
| 1:A:747:ARG:CZ | 1:A:750:ASN:CG | 0.49 | 2.80 | 10 | 1 |
| 1:C:781:ILE:HG22 | 1:C:785:LEU:HD22 | 0.49 | 1.84 | 13 | 1 |
| 1:A:756:ILE:CD1 | 1:C:799:LEU:HD13 | 0.49 | 2.37 | 1 | 1 |
| 1:B:758:ASP:HB3 | 1:C:715:LEU:HD13 | 0.49 | 1.83 | 5 | 1 |
| 1:B:759:ASP:O | 1:B:763:LEU:HD22 | 0.49 | 2.06 | 10 | 1 |
| 1:C:763:LEU:HD23 | 1:C:763:LEU:C | 0.49 | 2.27 | 9 | 8 |
| 1:A:792:ALA:HA | 1:A:795:TYR:CE1 | 0.49 | 2.42 | 7 | 1 |
| 1:A:800:LEU:C | 1:A:800:LEU:HD13 | 0.49 | 2.28 | 8 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:CZ | 0.49 | 2.37 | 11 | 1 |
| 1:B:704:LEU:HD13 | 1:B:707:ARG:CZ | 0.49 | 2.37 | 8 | 1 |
| 1:A:755:LEU:HD12 | 1:B:715:LEU:HD13 | 0.49 | 1.84 | 3 | 1 |
| 1:B:693:ILE:C | 1:B:693:ILE:HD13 | 0.49 | 2.28 | 5 | 3 |
| 1:A:775:LEU:O | 1:A:778:VAL:HG12 | 0.49 | 2.07 | 8 | 1 |
| 1:B:771:LEU:HD22 | 1:B:771:LEU:C | 0.49 | 2.28 | 8 | 2 |
| 1:B:746:ILE:O | 1:B:749:VAL:HG12 | 0.49 | 2.07 | 13 | 1 |
| 1:C:760:LEU:HD23 | 1:C:761:ARG:N | 0.49 | 2.22 | 1 | 1 |
| 1:B:705:VAL:HG13 | 1:B:745:SER:HB3 | 0.49 | 1.85 | 2 | 1 |
| 1:A:799:LEU:CD1 | 1:B:756:ILE:HG21 | 0.49 | 2.37 | 4 | 2 |
| 1:C:808:LYS:O | 1:C:812:VAL:HG12 | 0.49 | 2.07 | 13 | 10 |
| 1:A:695:LEU:HD22 | 1:A:696:ARG:HH22 | 0.49 | 1.68 | 12 | 1 |
| 1:A:756:ILE:HG21 | 1:C:795:TYR:CD2 | 0.49 | 2.42 | 8 | 1 |
| 1:A:768:TYR:CD2 | 1:A:771:LEU:HD11 | 0.49 | 2.43 | 11 | 1 |
| 1:B:693:ILE:C | 1:B:693:ILE:HD12 | 0.49 | 2.28 | 11 | 1 |
| 1:B:826:THR:O | 1:B:829:VAL:HG12 | 0.49 | 2.08 | 14 | 2 |
| 1:C:790:TRP:C | 1:C:792:ALA:N | 0.49 | 2.66 | 9 | 13 |
| 1:A:704:LEU:HD13 | 1:A:707:ARG:NH2 | 0.48 | 2.23 | 7 | 1 |
| 1:A:799:LEU:HG | 1:A:803:TRP:CZ2 | 0.48 | 2.43 | 7 | 1 |
| 1:B:781:ILE:HD13 | 1:C:743:ASP:O | 0.48 | 2.07 | 9 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:CG | 0.48 | 2.38 | 12 | 1 |
| 1:B:781:ILE:HD12 | 1:B:782:VAL:HG23 | 0.48 | 1.85 | 15 | 1 |
| 1:A:753:LEU:HD13 | 1:C:791:GLU:CB | 0.48 | 2.38 | 13 | 1 |
| 1:C:744:ARG:NH2 | 1:C:745:SER:HA | 0.48 | 2.23 | 14 | 1 |
| 1:C:792:ALA:O | 1:C:795:TYR:CD1 | 0.48 | 2.66 | 6 | 5 |
| 1:A:705:VAL:HG13 | 1:A:748:LEU:HD23 | 0.48 | 1.84 | 7 | 1 |
| 1:B:795:TYR:CE2 | 1:B:796:TRP:CD1 | 0.48 | 3.01 | 9 | 6 |
| 1:C:753:LEU:O | 1:C:753:LEU:HD12 | 0.48 | 2.09 | 14 | 3 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:695:LEU:HD22 | 1:C:696:ARG:NH2 | 0.48 | 2.22 | 4 | 1 |
| 1:C:819:ALA:O | 1:C:826:THR:HG21 | 0.48 | 2.09 | 6 | 2 |
| 1:A:747:ARG:NE | 1:A:750:ASN:ND2 | 0.48 | 2.62 | 10 | 1 |
| 1:C:713:SER:O | 1:C:714:PRO:O | 0.48 | 2.30 | 1 | 2 |
| 1:A:692:LEU:HD13 | 1:A:693:ILE:H | 0.48 | 1.68 | 10 | 2 |
| 1:B:792:ALA:HA | 1:B:795:TYR:CZ | 0.48 | 2.43 | 12 | 1 |
| 1:A:793:LEU:CG | 1:A:847:ILE:HD11 | 0.48 | 2.39 | 11 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:CG | 0.48 | 2.39 | 12 | 1 |
| 1:A:704:LEU:CD2 | 1:B:707:ARG:HG2 | 0.48 | 2.39 | 12 | 1 |
| 1:B:705:VAL:CG2 | 1:B:748:LEU:HD13 | 0.48 | 2.38 | 1 | 1 |
| 1:A:781:ILE:HD12 | 1:B:746:ILE:CG1 | 0.48 | 2.38 | 13 | 2 |
| 1:C:748:LEU:HD13 | 1:C:748:LEU:C | 0.48 | 2.29 | 6 | 3 |
| 1:C:843:ILE:HG23 | 1:C:843:ILE:O | 0.48 | 2.08 | 9 | 3 |
| 1:A:799:LEU:HD11 | 1:B:756:ILE:CG2 | 0.48 | 2.39 | 4 | 1 |
| 1:A:771:LEU:H | 1:A:771:LEU:HD22 | 0.48 | 1.68 | 11 | 1 |
| 1:A:753:LEU:HD12 | 1:A:754:ALA:N | 0.48 | 2.24 | 10 | 5 |
| 1:C:756:ILE:HG23 | 1:C:757:TRP:N | 0.48 | 2.23 | 14 | 4 |
| 1:A:746:ILE:HG12 | 1:C:781:ILE:HG23 | 0.48 | 1.85 | 11 | 1 |
| 1:A:768:TYR:CZ | 1:C:803:TRP:CE3 | 0.48 | 3.01 | 13 | 1 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:CB | 0.47 | 2.39 | 15 | 5 |
| 1:A:756:ILE:HG23 | 1:C:795:TYR:HD1 | 0.47 | 1.68 | 5 | 1 |
| 1:C:704:LEU:O | 1:C:708:VAL:HG23 | 0.47 | 2.09 | 7 | 1 |
| 1:A:799:LEU:HD21 | 1:B:760:LEU:HD12 | 0.47 | 1.86 | 11 | 1 |
| 1:B:799:LEU:HD13 | 1:B:799:LEU:C | 0.47 | 2.29 | 14 | 1 |
| 1:C:774:LEU:HA | 1:C:777:ILE:HG23 | 0.47 | 1.85 | 2 | 1 |
| 1:B:774:LEU:C | 1:B:774:LEU:HD13 | 0.47 | 2.30 | 9 | 5 |
| 1:A:695:LEU:HD22 | 1:A:696:ARG:NH2 | 0.47 | 2.23 | 8 | 3 |
| 1:B:768:TYR:CD1 | 1:B:771:LEU:HD11 | 0.47 | 2.44 | 13 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:HG3 | 0.47 | 1.84 | 3 | 1 |
| 1:C:761:ARG:CZ | 1:C:762:SER:HB2 | 0.47 | 2.39 | 4 | 1 |
| 1:C:704:LEU:C | 1:C:704:LEU:HD13 | 0.47 | 2.28 | 12 | 1 |
| 1:C:792:ALA:HA | 1:C:795:TYR:CE2 | 0.47 | 2.44 | 13 | 1 |
| 1:A:705:VAL:HG22 | 1:A:748:LEU:HD22 | 0.47 | 1.86 | 2 | 1 |
| 1:B:756:ILE:O | 1:B:760:LEU:HB2 | 0.47 | 2.09 | 9 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:CD | 0.47 | 2.40 | 12 | 1 |
| 1:C:765:LEU:CD1 | 1:C:774:LEU:HD21 | 0.47 | 2.40 | 12 | 1 |
| 1:B:781:ILE:HG22 | 1:C:746:ILE:HG21 | 0.47 | 1.86 | 14 | 1 |
| 1:A:756:ILE:HG22 | 1:C:799:LEU:HD12 | 0.47 | 1.85 | 11 | 2 |
| 1:B:774:LEU:HD23 | 1:B:774:LEU:O | 0.47 | 2.09 | 13 | 1 |
| 1:A:771:LEU:HD13 | 1:A:771:LEU:N | 0.47 | 2.25 | 11 | 5 |
| 1:B:708:VAL:HG21 | 1:C:714:PRO:HD3 | 0.47 | 1.86 | 12 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:714:PRO:HB3 | 1:C:748:LEU:HD22 | 0.47 | 1.85 | 13 | 1 |
| 1:A:843:ILE:HD13 | 1:A:843:ILE:N | 0.47 | 2.25 | 5 | 12 |
| 1:B:815:LEU:CB | 1:B:830:ILE:HD11 | 0.47 | 2.40 | 14 | 2 |
| 1:A:771:LEU:HD22 | 1:A:771:LEU:N | 0.47 | 2.24 | 15 | 8 |
| 1:C:764:SER:HB3 | 1:C:771:LEU:HD12 | 0.47 | 1.85 | 10 | 2 |
| 1:A:799:LEU:HD23 | 1:A:800:LEU:N | 0.47 | 2.24 | 10 | 1 |
| 1:A:692:LEU:HD23 | 1:A:696:ARG:NE | 0.47 | 2.23 | 13 | 1 |
| 1:C:710:GLN:O | 1:C:710:GLN:HG3 | 0.47 | 2.10 | 13 | 1 |
| 1:C:713:SER:O | 1:C:714:PRO:C | 0.47 | 2.53 | 15 | 9 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG22 | 0.47 | 2.08 | 4 | 1 |
| 1:C:756:ILE:HD13 | 1:C:756:ILE:C | 0.47 | 2.30 | 5 | 1 |
| 1:A:739:GLU:O | 1:C:761:ARG:NE | 0.47 | 2.48 | 13 | 1 |
| 1:B:806:GLU:CB | 1:C:771:LEU:HD21 | 0.47 | 2.39 | 1 | 1 |
| 1:B:765:LEU:HD23 | 1:B:766:PHE:N | 0.47 | 2.24 | 14 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:NE | 0.47 | 2.24 | 8 | 1 |
| 1:C:756:ILE:O | 1:C:760:LEU:HB2 | 0.47 | 2.09 | 8 | 1 |
| 1:C:850:GLY:O | 1:C:854:ILE:HG22 | 0.46 | 2.09 | 4 | 3 |
| 1:A:696:ARG:O | 1:A:699:PHE:HB2 | 0.46 | 2.11 | 11 | 2 |
| 1:C:704:LEU:HD22 | 1:C:707:ARG:CZ | 0.46 | 2.41 | 6 | 1 |
| 1:C:792:ALA:HA | 1:C:795:TYR:CE1 | 0.46 | 2.46 | 8 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:HG3 | 0.46 | 1.86 | 12 | 1 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:H | 0.46 | 1.71 | 14 | 1 |
| 1:A:706:ASN:OD1 | 1:A:706:ASN:C | 0.46 | 2.53 | 8 | 2 |
| 1:C:830:ILE:HD13 | 1:C:830:ILE:C | 0.46 | 2.31 | 14 | 2 |
| 1:A:706:ASN:O | 1:A:710:GLN:N | 0.46 | 2.48 | 3 | 2 |
| 1:B:803:TRP:CH2 | 1:C:760:LEU:HD11 | 0.46 | 2.45 | 6 | 1 |
| 1:B:744:ARG:O | 1:B:747:ARG:HB2 | 0.46 | 2.10 | 9 | 1 |
| 1:A:692:LEU:HD12 | 1:A:693:ILE:H | 0.46 | 1.69 | 11 | 1 |
| 1:A:799:LEU:HD11 | 1:B:756:ILE:CG1 | 0.46 | 2.41 | 3 | 1 |
| 1:B:768:TYR:CE1 | 1:B:771:LEU:HD12 | 0.46 | 2.46 | 4 | 1 |
| 1:B:792:ALA:O | 1:B:795:TYR:CD1 | 0.46 | 2.68 | 7 | 5 |
| 1:C:771:LEU:HD13 | 1:C:771:LEU:N | 0.46 | 2.24 | 4 | 4 |
| 1:A:715:LEU:O | 1:A:715:LEU:HD23 | 0.46 | 2.09 | 7 | 1 |
| 1:A:714:PRO:HA | 1:C:704:LEU:HD12 | 0.46 | 1.88 | 10 | 1 |
| 1:C:774:LEU:CD1 | 1:C:777:ILE:HD11 | 0.46 | 2.40 | 13 | 1 |
| 1:A:756:ILE:HD12 | 1:C:799:LEU:HD13 | 0.46 | 1.86 | 1 | 1 |
| 1:A:790:TRP:C | 1:A:792:ALA:N | 0.46 | 2.67 | 7 | 6 |
| 1:C:777:ILE:HD13 | 1:C:777:ILE:C | 0.46 | 2.31 | 2 | 1 |
| 1:B:790:TRP:C | 1:B:792:ALA:N | 0.46 | 2.68 | 11 | 14 |
| 1:B:795:TYR:CD1 | 1:C:753:LEU:HA | 0.46 | 2.46 | 15 | 2 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG23 | 0.46 | 2.11 | 4 | 5 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:803:TRP:CZ2 | 1:C:763:LEU:HD22 | 0.46 | 2.45 | 4 | 1 |
| 1:A:746:ILE:O | 1:A:749:VAL:HG23 | 0.46 | 2.10 | 10 | 1 |
| 1:A:758:ASP:HB3 | 1:B:715:LEU:HD21 | 0.46 | 1.87 | 3 | 1 |
| 1:B:799:LEU:HD13 | 1:B:800:LEU:HD22 | 0.46 | 1.85 | 3 | 1 |
| 1:B:830:ILE:HD13 | 1:B:830:ILE:C | 0.46 | 2.31 | 3 | 3 |
| 1:A:706:ASN:OD1 | 1:A:707:ARG:N | 0.46 | 2.48 | 7 | 4 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:OG1 | 0.46 | 2.11 | 7 | 1 |
| 1:B:778:VAL:HG22 | 1:C:742:ARG:NH1 | 0.46 | 2.26 | 11 | 1 |
| 1:A:785:LEU:HD13 | 1:B:750:ASN:ND2 | 0.46 | 2.26 | 13 | 1 |
| 1:C:799:LEU:HG | 1:C:803:TRP:CZ2 | 0.46 | 2.45 | 1 | 1 |
| 1:C:795:TYR:CE2 | 1:C:796:TRP:CD1 | 0.46 | 3.04 | 3 | 3 |
| 1:A:794:LYS:HE2 | 1:B:753:LEU:HD13 | 0.46 | 1.88 | 4 | 1 |
| 1:A:765:LEU:HD11 | 1:A:777:ILE:HD11 | 0.46 | 1.88 | 10 | 1 |
| 1:C:820:ILE:HD13 | 1:C:826:THR:OG1 | 0.46 | 2.10 | 6 | 1 |
| 1:C:791:GLU:O | 1:C:795:TYR:CD1 | 0.46 | 2.69 | 7 | 2 |
| 1:B:793:LEU:HD22 | 1:B:797:TRP:CE2 | 0.46 | 2.46 | 12 | 1 |
| 1:B:799:LEU:HD13 | 1:B:800:LEU:H | 0.46 | 1.70 | 12 | 1 |
| 1:A:774:LEU:HD13 | 1:A:774:LEU:C | 0.46 | 2.30 | 13 | 1 |
| 1:B:713:SER:O | 1:B:714:PRO:C | 0.46 | 2.54 | 12 | 6 |
| 1:A:785:LEU:HD23 | 1:B:749:VAL:HB | 0.46 | 1.87 | 2 | 2 |
| 1:C:768:TYR:C | 1:C:770:ARG:H | 0.46 | 2.14 | 2 | 1 |
| 1:A:775:LEU:HD23 | 1:A:776:LEU:H | 0.46 | 1.71 | 3 | 2 |
| 1:B:774:LEU:HD11 | 1:C:742:ARG:NH2 | 0.46 | 2.26 | 9 | 1 |
| 1:A:756:ILE:HG22 | 1:C:799:LEU:HB2 | 0.45 | 1.87 | 5 | 1 |
| 1:A:812:VAL:HG21 | 1:A:834:GLN:HG3 | 0.45 | 1.87 | 10 | 1 |
| 1:A:816:ASN:N | 1:A:830:ILE:HD11 | 0.45 | 2.26 | 10 | 1 |
| 1:B:692:LEU:O | 1:B:695:LEU:CB | 0.45 | 2.64 | 11 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:HB3 | 0.45 | 1.87 | 4 | 1 |
| 1:C:855:LEU:HD13 | 1:C:855:LEU:O | 0.45 | 2.12 | 10 | 3 |
| 1:B:795:TYR:CZ | 1:B:796:TRP:NE1 | 0.45 | 2.84 | 10 | 1 |
| 1:B:795:TYR:C | 1:B:795:TYR:CD2 | 0.45 | 2.89 | 14 | 1 |
| 1:A:791:GLU:OE2 | 1:B:753:LEU:HD22 | 0.45 | 2.11 | 1 | 1 |
| 1:C:835:GLY:O | 1:C:839:ALA:HB3 | 0.45 | 2.11 | 15 | 4 |
| 1:C:758:ASP:O | 1:C:761:ARG:NE | 0.45 | 2.50 | 8 | 1 |
| 1:A:715:LEU:O | 1:A:716:SER:C | 0.45 | 2.55 | 9 | 1 |
| 1:A:768:TYR:CE1 | 1:C:803:TRP:HA | 0.45 | 2.47 | 13 | 1 |
| 1:B:690:GLY:O | 1:B:693:ILE:HG23 | 0.45 | 2.11 | 11 | 2 |
| 1:A:760:LEU:HD23 | 1:A:760:LEU:C | 0.45 | 2.32 | 12 | 3 |
| 1:A:799:LEU:HD11 | 1:B:756:ILE:HG12 | 0.45 | 1.87 | 3 | 1 |
| 1:A:755:LEU:HD13 | 1:B:715:LEU:HD21 | 0.45 | 1.87 | 4 | 1 |
| 1:B:705:VAL:HG21 | 1:B:748:LEU:CD2 | 0.45 | 2.41 | 8 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:774:LEU:HD21 | 1:C:742:ARG:NH2 | 0.45 | 2.26 | 9 | 1 |
| 1:A:785:LEU:HD13 | 1:B:750:ASN:OD1 | 0.45 | 2.11 | 13 | 1 |
| 1:A:781:ILE:HG12 | 1:B:746:ILE:HG21 | 0.45 | 1.88 | 7 | 1 |
| 1:B:843:ILE:HD12 | 1:B:843:ILE:N | 0.45 | 2.26 | 15 | 1 |
| 1:C:753:LEU:C | 1:C:753:LEU:HD12 | 0.45 | 2.31 | 1 | 2 |
| 1:A:802:TYR:CE2 | 1:B:768:TYR:CZ | 0.45 | 3.05 | 2 | 1 |
| 1:A:698:VAL:O | 1:A:701:VAL:HB | 0.45 | 2.12 | 7 | 5 |
| 1:A:854:ILE:HG22 | 1:A:854:ILE:O | 0.45 | 2.12 | 3 | 6 |
| 1:B:707:ARG:HD3 | 1:C:712:TYR:CZ | 0.45 | 2.46 | 3 | 1 |
| 1:A:799:LEU:HD21 | 1:A:803:TRP:CH2 | 0.45 | 2.47 | 10 | 1 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:CB | 0.45 | 2.42 | 14 | 1 |
| 1:B:799:LEU:HD21 | 1:C:760:LEU:CD1 | 0.45 | 2.42 | 2 | 1 |
| 1:A:745:SER:HA | 1:A:748:LEU:HD22 | 0.45 | 1.86 | 5 | 1 |
| 1:A:744:ARG:O | 1:A:748:LEU:HD23 | 0.45 | 2.12 | 9 | 1 |
| 1:A:774:LEU:CD2 | 1:A:777:ILE:HD11 | 0.45 | 2.42 | 14 | 1 |
| 1:B:707:ARG:NH1 | 1:C:712:TYR:CD1 | 0.45 | 2.85 | 15 | 1 |
| 1:C:750:ASN:ND2 | 1:C:750:ASN:H | 0.45 | 2.10 | 15 | 1 |
| 1:A:785:LEU:HD21 | 1:B:750:ASN:ND2 | 0.45 | 2.27 | 7 | 2 |
| 1:B:832:VAL:O | 1:B:836:ALA:HB2 | 0.45 | 2.12 | 3 | 6 |
| 1:A:770:ARG:O | 1:A:774:LEU:N | 0.45 | 2.49 | 9 | 2 |
| 1:C:704:LEU:HD22 | 1:C:707:ARG:NH1 | 0.45 | 2.27 | 10 | 1 |
| 1:A:812:VAL:HG13 | 1:A:816:ASN:ND2 | 0.45 | 2.27 | 13 | 1 |
| 1:B:768:TYR:CG | 1:B:769:HIS:N | 0.44 | 2.85 | 4 | 1 |
| 1:A:768:TYR:CE2 | 1:C:803:TRP:CE2 | 0.44 | 3.05 | 7 | 1 |
| 1:C:790:TRP:HA | 1:C:790:TRP:CE3 | 0.44 | 2.47 | 7 | 2 |
| 1:A:785:LEU:HD22 | 1:B:749:VAL:HG13 | 0.44 | 1.87 | 13 | 1 |
| 1:A:705:VAL:HG22 | 1:A:748:LEU:HD23 | 0.44 | 1.88 | 1 | 1 |
| 1:A:814:LEU:O | 1:A:818:THR:HG22 | 0.44 | 2.12 | 1 | 1 |
| 1:B:803:TRP:O | 1:B:806:GLU:HG2 | 0.44 | 2.12 | 1 | 2 |
| 1:A:829:VAL:O | 1:A:833:VAL:HG23 | 0.44 | 2.13 | 3 | 4 |
| 1:A:795:TYR:CD2 | 1:B:753:LEU:HA | 0.44 | 2.47 | 7 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:HB2 | 0.44 | 2.11 | 7 | 2 |
| 1:B:812:VAL:HG12 | 1:B:816:ASN:ND2 | 0.44 | 2.27 | 3 | 1 |
| 1:C:795:TYR:CE1 | 1:C:796:TRP:CD1 | 0.44 | 3.05 | 5 | 3 |
| 1:B:712:TYR:CZ | 1:C:712:TYR:OH | 0.44 | 2.71 | 6 | 1 |
| 1:B:707:ARG:CZ | 1:C:712:TYR:CE1 | 0.44 | 3.01 | 15 | 1 |
| 1:C:803:TRP:CE3 | 1:C:803:TRP:N | 0.44 | 2.86 | 15 | 7 |
| 1:C:695:LEU:O | 1:C:695:LEU:HD23 | 0.44 | 2.12 | 6 | 1 |
| 1:C:697:ILE:HD13 | 1:C:697:ILE:C | 0.44 | 2.33 | 7 | 1 |
| 1:C:758:ASP:O | 1:C:761:ARG:CZ | 0.44 | 2.65 | 7 | 2 |
| 1:A:695:LEU:C | 1:A:695:LEU:HD23 | 0.44 | 2.33 | 9 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:692:LEU:O | 1:B:696:ARG:NH1 | 0.44 | 2.51 | 11 | 1 |
| 1:A:768:TYR:CE2 | 1:C:803:TRP:CE3 | 0.44 | 3.06 | 13 | 1 |
| 1:A:835:GLY:O | 1:A:839:ALA:HB3 | 0.44 | 2.12 | 6 | 2 |
| 1:A:854:ILE:O | 1:A:854:ILE:HD13 | 0.44 | 2.13 | 1 | 1 |
| 1:C:771:LEU:H | 1:C:771:LEU:HD22 | 0.44 | 1.72 | 6 | 2 |
| 1:B:847:ILE:HG23 | 1:B:848:ARG:N | 0.44 | 2.28 | 15 | 4 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG12 | 0.44 | 2.13 | 10 | 1 |
| 1:C:774:LEU:HD13 | 1:C:777:ILE:CD1 | 0.44 | 2.43 | 13 | 1 |
| 1:C:795:TYR:CZ | 1:C:796:TRP:CE2 | 0.44 | 3.05 | 14 | 1 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG23 | 0.44 | 2.12 | 15 | 1 |
| 1:B:771:LEU:N | 1:B:771:LEU:HD22 | 0.44 | 2.28 | 1 | 4 |
| 1:A:715:LEU:O | 1:C:754:ALA:HB1 | 0.44 | 2.13 | 2 | 1 |
| 1:B:790:TRP:CE3 | 1:B:790:TRP:HA | 0.44 | 2.48 | 15 | 7 |
| 1:B:705:VAL:HG21 | 1:B:748:LEU:HD12 | 0.44 | 1.88 | 6 | 1 |
| 1:B:795:TYR:CD2 | 1:C:756:ILE:HB | 0.44 | 2.47 | 1 | 1 |
| 1:B:793:LEU:O | 1:B:797:TRP:CD1 | 0.44 | 2.71 | 8 | 4 |
| 1:C:744:ARG:CZ | 1:C:747:ARG:HB2 | 0.44 | 2.42 | 5 | 1 |
| 1:A:763:LEU:H | 1:A:763:LEU:HD13 | 0.44 | 1.73 | 9 | 1 |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:O | 0.44 | 2.13 | 10 | 1 |
| 1:C:777:ILE:HD12 | 1:C:781:ILE:HD13 | 0.44 | 1.90 | 15 | 1 |
| 1:B:695:LEU:O | 1:B:698:VAL:HG12 | 0.44 | 2.13 | 7 | 2 |
| 1:A:768:TYR:CD1 | 1:C:803:TRP:HA | 0.44 | 2.48 | 10 | 1 |
| 1:C:690:GLY:O | 1:C:693:ILE:HG23 | 0.44 | 2.13 | 11 | 2 |
| 1:C:758:ASP:O | 1:C:761:ARG:HD2 | 0.44 | 2.13 | 11 | 1 |
| 1:B:794:LYS:NZ | 1:C:753:LEU:HD13 | 0.44 | 2.28 | 15 | 1 |
| 1:C:794:LYS:HD3 | 1:C:795:TYR:N | 0.43 | 2.28 | 1 | 2 |
| 1:B:836:ALA:O | 1:B:840:ILE:HG22 | 0.43 | 2.13 | 3 | 2 |
| 1:B:822:VAL:O | 1:B:822:VAL:HG13 | 0.43 | 2.13 | 4 | 1 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG12 | 0.43 | 2.13 | 5 | 5 |
| 1:B:799:LEU:O | 1:B:803:TRP:CD2 | 0.43 | 2.71 | 7 | 1 |
| 1:B:747:ARG:O | 1:B:751:GLY:N | 0.43 | 2.51 | 9 | 1 |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:OH | 0.43 | 2.12 | 13 | 1 |
| 1:B:820:ILE:HD12 | 1:B:820:ILE:N | 0.43 | 2.28 | 14 | 2 |
| 1:A:768:TYR:CZ | 1:A:771:LEU:HD11 | 0.43 | 2.48 | 9 | 1 |
| 1:C:764:SER:C | 1:C:774:LEU:HD11 | 0.43 | 2.33 | 11 | 1 |
| 1:B:763:LEU:O | 1:B:774:LEU:HD22 | 0.43 | 2.13 | 15 | 1 |
| 1:B:741:ASP:O | 1:B:744:ARG:N | 0.43 | 2.50 | 12 | 4 |
| 1:B:819:ALA:HB1 | 1:B:827:ASP:N | 0.43 | 2.27 | 11 | 1 |
| 1:B:795:TYR:CE2 | 1:C:756:ILE:HD13 | 0.43 | 2.48 | 12 | 1 |
| 1:B:799:LEU:CB | 1:C:760:LEU:HD11 | 0.43 | 2.42 | 12 | 1 |
| 1:A:749:VAL:CG2 | 1:C:785:LEU:HD11 | 0.43 | 2.44 | 14 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:758:ASP:N | 1:A:758:ASP:OD1 | 0.43 | 2.51 | 6 | 1 |
| 1:C:774:LEU:O | 1:C:778:VAL:HG23 | 0.43 | 2.13 | 6 | 1 |
| 1:B:704:LEU:HD21 | 1:C:707:ARG:HA | 0.43 | 1.90 | 7 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:HH11 | 0.43 | 1.69 | 11 | 1 |
| 1:B:692:LEU:O | 1:B:696:ARG:NH2 | 0.43 | 2.51 | 5 | 1 |
| 1:A:790:TRP:CE3 | 1:A:790:TRP:HA | 0.43 | 2.49 | 7 | 1 |
| 1:B:799:LEU:HD23 | 1:C:756:ILE:HG12 | 0.43 | 1.91 | 7 | 1 |
| 1:A:800:LEU:HD13 | 1:A:800:LEU:O | 0.43 | 2.13 | 8 | 1 |
| 1:A:768:TYR:CE1 | 1:A:771:LEU:CD2 | 0.43 | 3.01 | 10 | 1 |
| 1:A:748:LEU:HD12 | 1:A:748:LEU:O | 0.43 | 2.13 | 13 | 1 |
| 1:A:713:SER:OG | 1:C:708:VAL:HG22 | 0.43 | 2.12 | 14 | 1 |
| 1:B:693:ILE:HD12 | 1:C:696:ARG:HE | 0.43 | 1.72 | 15 | 1 |
| 1:A:705:VAL:HG22 | 1:A:748:LEU:CD2 | 0.43 | 2.44 | 1 | 1 |
| 1:B:795:TYR:CE2 | 1:B:796:TRP:NE1 | 0.43 | 2.86 | 1 | 1 |
| 1:B:781:ILE:HG12 | 1:B:785:LEU:HD13 | 0.43 | 1.90 | 2 | 1 |
| 1:A:799:LEU:HD13 | 1:B:756:ILE:HG21 | 0.43 | 1.91 | 5 | 1 |
| 1:A:747:ARG:CZ | 1:C:785:LEU:HB3 | 0.43 | 2.43 | 10 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:CD | 0.43 | 2.43 | 15 | 1 |
| 1:A:712:TYR:HH | 1:C:712:TYR:HD2 | 0.43 | 1.54 | 2 | 1 |
| 1:A:771:LEU:HD23 | 1:A:772:ARG:HD3 | 0.43 | 1.89 | 2 | 1 |
| 1:B:792:ALA:HA | 1:B:795:TYR:CE1 | 0.43 | 2.48 | 3 | 1 |
| 1:A:753:LEU:C | 1:A:753:LEU:HD12 | 0.43 | 2.34 | 13 | 1 |
| 1:C:774:LEU:HD13 | 1:C:777:ILE:HD11 | 0.43 | 1.90 | 13 | 1 |
| 1:A:756:ILE:HD11 | 1:C:795:TYR:HB2 | 0.43 | 1.90 | 1 | 1 |
| 1:C:815:LEU:HD23 | 1:C:830:ILE:HD11 | 0.43 | 1.89 | 1 | 1 |
| 1:A:693:ILE:HD13 | 1:B:693:ILE:CG1 | 0.43 | 2.44 | 2 | 1 |
| 1:B:710:GLN:O | 1:B:715:LEU:HD11 | 0.43 | 2.14 | 2 | 1 |
| 1:B:781:ILE:CG1 | 1:B:785:LEU:HD13 | 0.43 | 2.44 | 2 | 1 |
| 1:C:833:VAL:HG23 | 1:C:834:GLN:N | 0.43 | 2.29 | 10 | 5 |
| 1:A:692:LEU:HD23 | 1:A:696:ARG:HH11 | 0.43 | 1.74 | 10 | 1 |
| 1:A:693:ILE:HB | 1:B:696:ARG:CZ | 0.43 | 2.44 | 11 | 1 |
| 1:A:768:TYR:O | 1:A:771:LEU:HG | 0.43 | 2.14 | 1 | 1 |
| 1:A:795:TYR:CB | 1:B:756:ILE:HG21 | 0.43 | 2.44 | 3 | 1 |
| 1:B:799:LEU:HB2 | 1:C:756:ILE:HD11 | 0.43 | 1.89 | 3 | 1 |
| 1:A:807:LEU:HD22 | 1:B:772:ARG:NH1 | 0.43 | 2.28 | 6 | 1 |
| 1:A:771:LEU:CD1 | 1:A:771:LEU:H | 0.43 | 2.26 | 8 | 1 |
| 1:B:796:TRP:HA | 1:B:799:LEU:HD12 | 0.43 | 1.91 | 12 | 1 |
| 1:A:746:ILE:CG2 | 1:C:781:ILE:HG23 | 0.42 | 2.41 | 1 | 1 |
| 1:A:802:TYR:CZ | 1:B:760:LEU:HD11 | 0.42 | 2.49 | 1 | 2 |
| 1:C:771:LEU:N | 1:C:771:LEU:HD13 | 0.42 | 2.29 | 7 | 2 |
| 1:C:820:ILE:N | 1:C:820:ILE:HD12 | 0.42 | 2.28 | 12 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:693:ILE:C | 1:A:693:ILE:HD12 | 0.42 | 2.34 | 10 | 1 |
| 1:B:753:LEU:C | 1:B:753:LEU:HD12 | 0.42 | 2.33 | 14 | 1 |
| 1:A:756:ILE:HD13 | 1:C:796:TRP:CD1 | 0.42 | 2.49 | 1 | 1 |
| 1:C:829:VAL:O | 1:C:833:VAL:HG12 | 0.42 | 2.14 | 1 | 1 |
| 1:B:763:LEU:O | 1:B:774:LEU:HD12 | 0.42 | 2.14 | 9 | 1 |
| 1:B:771:LEU:O | 1:B:774:LEU:HG | 0.42 | 2.14 | 10 | 1 |
| 1:A:757:TRP:CD1 | 1:A:758:ASP:N | 0.42 | 2.87 | 14 | 1 |
| 1:B:815:LEU:HB2 | 1:B:830:ILE:HD11 | 0.42 | 1.91 | 14 | 1 |
| 1:B:781:ILE:HD12 | 1:B:782:VAL:H | 0.42 | 1.70 | 15 | 1 |
| 1:C:795:TYR:HD2 | 1:C:796:TRP:N | 0.42 | 2.12 | 1 | 1 |
| 1:A:802:TYR:CE1 | 1:B:760:LEU:HD11 | 0.42 | 2.50 | 2 | 1 |
| 1:A:771:LEU:HD13 | 1:A:771:LEU:H | 0.42 | 1.73 | 6 | 1 |
| 1:A:808:LYS:HZ3 | 1:A:838:ARG:N | 0.42 | 2.11 | 6 | 1 |
| 1:B:763:LEU:HD23 | 1:B:764:SER:N | 0.42 | 2.27 | 10 | 3 |
| 1:A:748:LEU:O | 1:B:716:SER:CB | 0.42 | 2.68 | 9 | 1 |
| 1:A:793:LEU:HD13 | 1:A:793:LEU:O | 0.42 | 2.14 | 2 | 1 |
| 1:A:742:ARG:O | 1:A:746:ILE:HD12 | 0.42 | 2.15 | 6 | 1 |
| 1:A:750:ASN:N | 1:C:785:LEU:HD21 | 0.42 | 2.29 | 6 | 1 |
| 1:A:795:TYR:CD2 | 1:B:756:ILE:CG2 | 0.42 | 3.00 | 8 | 1 |
| 1:A:709:ARG:CZ | 1:A:709:ARG:HA | 0.42 | 2.45 | 9 | 1 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:CD | 0.42 | 2.45 | 2 | 1 |
| 1:B:781:ILE:HD13 | 1:C:746:ILE:CG2 | 0.42 | 2.43 | 15 | 1 |
| 1:C:822:VAL:HG13 | 1:C:823:GLY:N | 0.42 | 2.30 | 11 | 5 |
| 1:C:816:ASN:O | 1:C:820:ILE:HD13 | 0.42 | 2.15 | 5 | 1 |
| 1:B:769:HIS:H | 1:B:771:LEU:HD12 | 0.42 | 1.75 | 12 | 1 |
| 1:A:765:LEU:HD12 | 1:A:765:LEU:N | 0.42 | 2.30 | 1 | 1 |
| 1:A:815:LEU:O | 1:A:819:ALA:HB2 | 0.42 | 2.15 | 1 | 1 |
| 1:B:760:LEU:HD23 | 1:B:760:LEU:O | 0.42 | 2.14 | 1 | 2 |
| 1:A:800:LEU:HA | 1:A:803:TRP:CE3 | 0.42 | 2.49 | 6 | 2 |
| 1:A:758:ASP:CB | 1:B:715:LEU:HD21 | 0.42 | 2.45 | 3 | 1 |
| 1:A:710:GLN:O | 1:A:715:LEU:HD12 | 0.42 | 2.15 | 5 | 1 |
| 1:B:695:LEU:HD23 | 1:B:695:LEU:C | 0.42 | 2.35 | 3 | 3 |
| 1:A:771:LEU:CD1 | 1:A:772:ARG:N | 0.42 | 2.82 | 7 | 1 |
| 1:B:830:ILE:HG23 | 1:B:831:GLU:N | 0.42 | 2.30 | 8 | 2 |
| 1:A:815:LEU:CB | 1:A:830:ILE:HD13 | 0.42 | 2.45 | 12 | 1 |
| 1:B:763:LEU:C | 1:B:763:LEU:HD23 | 0.42 | 2.35 | 9 | 2 |
| 1:B:771:LEU:HD13 | 1:B:771:LEU:N | 0.42 | 2.27 | 1 | 1 |
| 1:A:780:ARG:O | 1:A:784:LEU:HD23 | 0.42 | 2.15 | 2 | 1 |
| 1:B:791:GLU:O | 1:B:795:TYR:CD1 | 0.42 | 2.73 | 3 | 1 |
| 1:A:820:ILE:O | 1:A:821:ALA:O | 0.42 | 2.37 | 5 | 1 |
| 1:C:793:LEU:O | 1:C:797:TRP:CD1 | 0.42 | 2.73 | 15 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:793:LEU:HD23 | 1:B:847:ILE:HG12 | 0.42 | 1.91 | 10 | 1 |
| 1:A:774:LEU:O | 1:A:777:ILE:HG13 | 0.42 | 2.15 | 11 | 2 |
| 1:C:777:ILE:HD12 | 1:C:777:ILE:C | 0.42 | 2.35 | 13 | 1 |
| 1:A:714:PRO:HD2 | 1:C:708:VAL:HG21 | 0.41 | 1.92 | 3 | 1 |
| 1:C:744:ARG:O | 1:C:747:ARG:HB2 | 0.41 | 2.15 | 14 | 2 |
| 1:A:753:LEU:HD13 | 1:C:791:GLU:HB3 | 0.41 | 1.91 | 13 | 1 |
| 1:C:799:LEU:O | 1:C:803:TRP:CG | 0.41 | 2.73 | 13 | 1 |
| 1:C:771:LEU:N | 1:C:771:LEU:HD22 | 0.41 | 2.29 | 15 | 1 |
| 1:A:746:ILE:HG22 | 1:C:785:LEU:HD22 | 0.41 | 1.92 | 1 | 1 |
| 1:C:847:ILE:N | 1:C:847:ILE:HD13 | 0.41 | 2.29 | 12 | 3 |
| 1:A:771:LEU:H | 1:A:771:LEU:CD1 | 0.41 | 2.28 | 5 | 1 |
| 1:A:756:ILE:N | 1:A:756:ILE:HD12 | 0.41 | 2.30 | 13 | 1 |
| 1:A:765:LEU:HD23 | 1:A:766:PHE:N | 0.41 | 2.29 | 2 | 1 |
| 1:A:847:ILE:C | 1:A:847:ILE:HD12 | 0.41 | 2.35 | 2 | 1 |
| 1:A:830:ILE:HD12 | 1:A:831:GLU:N | 0.41 | 2.30 | 3 | 1 |
| 1:A:715:LEU:HD22 | 1:C:754:ALA:HB1 | 0.41 | 1.92 | 13 | 1 |
| 1:A:799:LEU:HD23 | 1:A:803:TRP:HZ2 | 0.41 | 1.72 | 15 | 1 |
| 1:C:742:ARG:O | 1:C:746:ILE:HD13 | 0.41 | 2.15 | 15 | 1 |
| 1:C:764:SER:C | 1:C:774:LEU:HD12 | 0.41 | 2.36 | 6 | 1 |
| 1:A:795:TYR:CE2 | 1:B:757:TRP:CD1 | 0.41 | 3.09 | 12 | 1 |
| 1:C:750:ASN:N | 1:C:750:ASN:ND2 | 0.41 | 2.68 | 14 | 1 |
| 1:B:803:TRP:O | 1:B:806:GLU:HG3 | 0.41 | 2.15 | 15 | 1 |
| 1:B:744:ARG:O | 1:B:747:ARG:HB3 | 0.41 | 2.16 | 5 | 1 |
| 1:C:774:LEU:O | 1:C:777:ILE:CG1 | 0.41 | 2.69 | 8 | 1 |
| 1:A:743:ASP:HA | 1:A:746:ILE:HD12 | 0.41 | 1.91 | 9 | 1 |
| 1:A:775:LEU:HD23 | 1:A:775:LEU:C | 0.41 | 2.36 | 9 | 1 |
| 1:C:703:SER:O | 1:C:707:ARG:HD2 | 0.41 | 2.16 | 9 | 1 |
| 1:C:790:TRP:C | 1:C:792:ALA:H | 0.41 | 2.18 | 9 | 1 |
| 1:C:707:ARG:HA | 1:C:712:TYR:CD2 | 0.41 | 2.50 | 15 | 1 |
| 1:A:793:LEU:HD21 | 1:A:847:ILE:HD11 | 0.41 | 1.91 | 4 | 1 |
| 1:C:746:ILE:HD12 | 1:C:746:ILE:N | 0.41 | 2.31 | 9 | 1 |
| 1:A:696:ARG:HD2 | 1:A:696:ARG:N | 0.41 | 2.31 | 2 | 1 |
| 1:C:708:VAL:HG12 | 1:C:741:ASP:OD2 | 0.41 | 2.16 | 5 | 1 |
| 1:B:836:ALA:O | 1:B:840:ILE:HD12 | 0.41 | 2.15 | 12 | 2 |
| 1:A:696:ARG:N | 1:A:696:ARG:HD3 | 0.41 | 2.29 | 8 | 1 |
| 1:A:692:LEU:HD23 | 1:A:696:ARG:NH1 | 0.41 | 2.31 | 10 | 1 |
| 1:B:764:SER:CB | 1:B:771:LEU:HD12 | 0.41 | 2.46 | 13 | 2 |
| 1:A:768:TYR:OH | 1:A:771:LEU:CD2 | 0.41 | 2.69 | 13 | 1 |
| 1:B:791:GLU:CB | 1:C:753:LEU:HD22 | 0.41 | 2.43 | 1 | 1 |
| 1:B:706:ASN:O | 1:B:710:GLN:N | 0.41 | 2.54 | 2 | 1 |
| 1:A:760:LEU:HA | 1:A:763:LEU:HD11 | 0.41 | 1.91 | 7 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:833:VAL:HG13 | 1:B:834:GLN:N | 0.41 | 2.31 | 7 | 1 |
| 1:A:768:TYR:CZ | 1:C:803:TRP:CD2 | 0.41 | 3.08 | 13 | 1 |
| 1:B:763:LEU:HA | 1:B:774:LEU:HD22 | 0.41 | 1.92 | 15 | 1 |
| 1:C:790:TRP:O | 1:C:792:ALA:N | 0.41 | 2.53 | 7 | 3 |
| 1:B:756:ILE:HD11 | 1:B:760:LEU:HD13 | 0.41 | 1.92 | 3 | 1 |
| 1:B:818:THR:O | 1:B:821:ALA:HB3 | 0.41 | 2.15 | 4 | 1 |
| 1:B:744:ARG:NH2 | 1:C:716:SER:OG | 0.41 | 2.53 | 6 | 1 |
| 1:B:795:TYR:CD2 | 1:B:796:TRP:CD1 | 0.41 | 3.09 | 6 | 1 |
| 1:B:803:TRP:HH2 | 1:C:760:LEU:HD11 | 0.41 | 1.75 | 6 | 1 |
| 1:A:704:LEU:HD13 | 1:B:707:ARG:HG3 | 0.41 | 1.93 | 9 | 1 |
| 1:C:856:LEU:C | 1:C:856:LEU:HD12 | 0.41 | 2.36 | 10 | 2 |
| 1:B:830:ILE:CG2 | 1:B:831:GLU:N | 0.41 | 2.83 | 11 | 1 |
| 1:A:766:PHE:O | 1:A:767:SER:CB | 0.41 | 2.69 | 13 | 1 |
| 1:A:776:LEU:O | 1:A:779:THR:HG22 | 0.41 | 2.16 | 14 | 1 |
| 1:C:830:ILE:HG23 | 1:C:831:GLU:N | 0.41 | 2.30 | 5 | 3 |
| 1:A:756:ILE:HB | 1:C:795:TYR:HB2 | 0.41 | 1.92 | 6 | 1 |
| 1:C:781:ILE:HD13 | 1:C:785:LEU:HD13 | 0.41 | 1.90 | 8 | 1 |
| 1:C:764:SER:O | 1:C:765:LEU:CB | 0.41 | 2.69 | 9 | 1 |
| 1:A:693:ILE:HD13 | 1:B:693:ILE:HG12 | 0.41 | 1.93 | 10 | 1 |
| 1:B:755:LEU:HD23 | 1:B:755:LEU:O | 0.41 | 2.16 | 14 | 1 |
| 1:A:802:TYR:CZ | 1:B:768:TYR:OH | 0.40 | 2.74 | 1 | 1 |
| 1:A:765:LEU:O | 1:A:766:PHE:O | 0.40 | 2.39 | 10 | 1 |
| 1:C:847:ILE:HD13 | 1:C:847:ILE:H | 0.40 | 1.76 | 2 | 1 |
| 1:A:753:LEU:O | 1:A:756:ILE:HG22 | 0.40 | 2.17 | 3 | 1 |
| 1:A:806:GLU:CB | 1:B:768:TYR:OH | 0.40 | 2.70 | 4 | 1 |
| 1:B:813:SER:O | 1:B:817:ALA:HB2 | 0.40 | 2.16 | 4 | 1 |
| 1:A:776:LEU:O | 1:A:776:LEU:HD23 | 0.40 | 2.17 | 5 | 1 |
| 1:C:843:ILE:HD12 | 1:C:844:PRO:O | 0.40 | 2.16 | 6 | 1 |
| 1:A:704:LEU:HD13 | 1:B:707:ARG:CG | 0.40 | 2.46 | 9 | 1 |
| 1:A:795:TYR:CD2 | 1:A:795:TYR:C | 0.40 | 2.95 | 10 | 1 |
| 1:B:704:LEU:HD22 | 1:B:704:LEU:N | 0.40 | 2.32 | 10 | 1 |
| 1:C:820:ILE:HD12 | 1:C:827:ASP:HB2 | 0.40 | 1.93 | 10 | 1 |
| 1:A:774:LEU:HD23 | 1:A:774:LEU:C | 0.40 | 2.37 | 11 | 1 |
| 1:C:855:LEU:O | 1:C:855:LEU:HD13 | 0.40 | 2.16 | 11 | 1 |
| 1:C:795:TYR:CD1 | 1:C:796:TRP:CD1 | 0.40 | 3.09 | 12 | 1 |
| 1:A:781:ILE:HD12 | 1:B:746:ILE:CD1 | 0.40 | 2.46 | 13 | 1 |
| 1:C:856:LEU:HD12 | 1:C:856:LEU:C | 0.40 | 2.36 | 13 | 1 |
| 1:A:795:TYR:CD1 | 1:A:796:TRP:CD1 | 0.40 | 3.09 | 1 | 1 |
| 1:C:833:VAL:HG13 | 1:C:834:GLN:N | 0.40 | 2.31 | 1 | 1 |
| 1:C:832:VAL:O | 1:C:836:ALA:HB2 | 0.40 | 2.16 | 2 | 1 |
| 1:B:814:LEU:HD23 | 1:B:814:LEU:C | 0.40 | 2.37 | 3 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:816:ASN:CB | 1:A:830:ILE:HD11 | 0.40 | 2.46 | 8 | 1 |
| 1:A:781:ILE:O | 1:A:785:LEU:HD13 | 0.40 | 2.16 | 10 | 1 |
| 1:A:762:SER:O | 1:A:774:LEU:HD13 | 0.40 | 2.16 | 14 | 1 |
| 1:B:830:ILE:HD13 | 1:B:834:GLN:NE2 | 0.40 | 2.32 | 14 | 1 |
| 1:A:710:GLN:HG2 | 1:C:704:LEU:HD21 | 0.40 | 1.93 | 15 | 1 |
| 1:A:760:LEU:C | 1:A:760:LEU:HD23 | 0.40 | 2.36 | 15 | 1 |
| 1:B:799:LEU:HD22 | 1:B:803:TRP:CH2 | 0.40 | 2.52 | 2 | 1 |
| 1:B:832:VAL:HG23 | 1:B:833:VAL:N | 0.40 | 2.31 | 2 | 1 |
| 1:B:703:SER:O | 1:B:707:ARG:HD2 | 0.40 | 2.16 | 3 | 1 |
| 1:C:795:TYR:CE2 | 1:C:796:TRP:NE1 | 0.40 | 2.90 | 4 | 1 |
| 1:A:821:ALA:O | 1:A:822:VAL:CG2 | 0.40 | 2.69 | 5 | 1 |
| 1:C:807:LEU:O | 1:C:807:LEU:HD13 | 0.40 | 2.16 | 9 | 1 |
| 1:A:751:GLY:O | 1:A:755:LEU:N | 0.40 | 2.53 | 10 | 1 |
| 1:A:697:ILE:HD11 | 1:B:696:ARG:CD | 0.40 | 2.46 | 13 | 1 |
| 1:A:742:ARG:NH1 | 1:C:778:VAL:HG12 | 0.40 | 2.31 | 13 | 1 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:HB3 | 0.40 | 1.91 | 14 | 1 |
| 1:A:795:TYR:CD1 | 1:B:753:LEU:O | 0.40 | 2.74 | 15 | 1 |
| 1:A:756:ILE:HG23 | 1:A:757:TRP:N | 0.40 | 2.32 | 3 | 1 |
| 1:C:847:ILE:HD13 | 1:C:847:ILE:N | 0.40 | 2.32 | 7 | 1 |
| 1:A:702:LEU:O | 1:A:705:VAL:CG2 | 0.40 | 2.69 | 11 | 1 |
| 1:B:856:LEU:O | 1:B:856:LEU:HD23 | 0.40 | 2.17 | 13 | 1 |

## 6.3 Torsion angles (i)

### 6.3.1 Protein backbone (i)

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

| Mol | Chain | Analysed | Favoured | Allowed | Outliers | Percentiles | |
|---|---|---|---|---|---|---|---|
| 1 | A | 140/180 (78%) | 128±2 (91±1%) | 7±2 (5±1%) | 6±2 (4±1%) | 5 | 30 |
| 1 | B | 143/180 (79%) | 129±2 (90±1%) | 7±1 (5±1%) | 7±2 (5±1%) | 4 | 26 |
| 1 | C | 142/180 (79%) | 129±2 (91±2%) | 6±2 (4±1%) | 7±1 (5±1%) | 4 | 26 |
| All | All | 6375/8100 (79%) | 5787 (91%) | 291 (5%) | 297 (5%) | 4 | 27 |

All 53 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | B | 741 | ASP | 15 |
| 1 | C | 821 | ALA | 15 |
| 1 | B | 714 | PRO | 14 |
| 1 | B | 844 | PRO | 14 |
| 1 | C | 714 | PRO | 12 |
| 1 | A | 714 | PRO | 11 |
| 1 | A | 821 | ALA | 11 |
| 1 | A | 822 | VAL | 10 |
| 1 | B | 712 | TYR | 10 |
| 1 | C | 765 | LEU | 10 |
| 1 | C | 825 | GLY | 10 |
| 1 | C | 822 | VAL | 10 |
| 1 | C | 769 | HIS | 9 |
| 1 | A | 712 | TYR | 8 |
| 1 | A | 768 | TYR | 8 |
| 1 | C | 711 | GLY | 8 |
| 1 | A | 741 | ASP | 7 |
| 1 | B | 768 | TYR | 7 |
| 1 | B | 843 | ILE | 7 |
| 1 | A | 767 | SER | 6 |
| 1 | B | 825 | GLY | 6 |
| 1 | B | 767 | SER | 6 |
| 1 | C | 741 | ASP | 6 |
| 1 | B | 765 | LEU | 6 |
| 1 | C | 846 | ARG | 6 |
| 1 | B | 824 | GLU | 5 |
| 1 | A | 715 | LEU | 4 |
| 1 | C | 712 | TYR | 4 |
| 1 | C | 844 | PRO | 4 |
| 1 | A | 825 | GLY | 4 |
| 1 | A | 765 | LEU | 4 |
| 1 | A | 824 | GLU | 3 |
| 1 | B | 769 | HIS | 3 |
| 1 | B | 766 | PHE | 3 |
| 1 | B | 823 | GLY | 3 |
| 1 | C | 768 | TYR | 2 |
| 1 | C | 845 | ARG | 2 |
| 1 | C | 824 | GLU | 2 |
| 1 | B | 845 | ARG | 2 |
| 1 | A | 823 | GLY | 2 |
| 1 | A | 711 | GLY | 2 |
| 1 | A | 844 | PRO | 2 |
| 1 | B | 822 | VAL | 2 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 766 | PHE | 2 |
| 1 | A | 845 | ARG | 2 |
| 1 | B | 846 | ARG | 1 |
| 1 | C | 767 | SER | 1 |
| 1 | C | 823 | GLY | 1 |
| 1 | A | 769 | HIS | 1 |
| 1 | A | 846 | ARG | 1 |
| 1 | C | 842 | HIS | 1 |
| 1 | B | 842 | HIS | 1 |
| 1 | C | 766 | PHE | 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 | 125/157 (80%) | 92±3 (73±2%) | 33±3 (27±2%) | 2 | 22 |
| 1 | B | 127/157 (81%) | 99±4 (78±3%) | 28±4 (22±3%) | 3 | 30 |
| 1 | C | 126/157 (80%) | 98±3 (78±2%) | 28±3 (22±2%) | 3 | 29 |
| All | All | 5670/7065 (80%) | 4325 (76%) | 1345 (24%) | 2 | 27 |

All 288 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 | 794 | LYS | 15 |
| 1 | A | 843 | ILE | 15 |
| 1 | B | 693 | ILE | 15 |
| 1 | B | 771 | LEU | 15 |
| 1 | B | 794 | LYS | 15 |
| 1 | C | 771 | LEU | 15 |
| 1 | C | 794 | LYS | 15 |
| 1 | C | 803 | TRP | 15 |
| 1 | A | 744 | ARG | 14 |
| 1 | A | 763 | LEU | 14 |
| 1 | A | 771 | LEU | 14 |
| 1 | B | 803 | TRP | 14 |
| 1 | B | 838 | ARG | 14 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 692 | LEU | 13 |
| 1 | A | 775 | LEU | 13 |
| 1 | A | 799 | LEU | 13 |
| 1 | A | 855 | LEU | 13 |
| 1 | B | 830 | ILE | 12 |
| 1 | C | 838 | ARG | 12 |
| 1 | C | 855 | LEU | 12 |
| 1 | A | 797 | TRP | 12 |
| 1 | C | 761 | ARG | 12 |
| 1 | A | 772 | ARG | 12 |
| 1 | A | 800 | LEU | 11 |
| 1 | B | 834 | GLN | 11 |
| 1 | C | 772 | ARG | 11 |
| 1 | A | 697 | ILE | 10 |
| 1 | A | 761 | ARG | 10 |
| 1 | B | 757 | TRP | 10 |
| 1 | C | 764 | SER | 10 |
| 1 | C | 847 | ILE | 10 |
| 1 | A | 757 | TRP | 10 |
| 1 | A | 784 | LEU | 10 |
| 1 | A | 795 | TYR | 10 |
| 1 | A | 747 | ARG | 9 |
| 1 | B | 747 | ARG | 9 |
| 1 | B | 784 | LEU | 9 |
| 1 | B | 848 | ARG | 9 |
| 1 | C | 788 | ARG | 9 |
| 1 | A | 773 | ASP | 9 |
| 1 | A | 806 | GLU | 9 |
| 1 | B | 715 | LEU | 9 |
| 1 | B | 774 | LEU | 9 |
| 1 | B | 790 | TRP | 9 |
| 1 | C | 693 | ILE | 9 |
| 1 | C | 697 | ILE | 9 |
| 1 | B | 692 | LEU | 9 |
| 1 | B | 713 | SER | 9 |
| 1 | A | 768 | TYR | 8 |
| 1 | A | 803 | TRP | 8 |
| 1 | B | 756 | ILE | 8 |
| 1 | B | 768 | TYR | 8 |
| 1 | B | 799 | LEU | 8 |
| 1 | C | 716 | SER | 8 |
| 1 | C | 744 | ARG | 8 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | C | 770 | ARG | 8 |
| 1 | C | 795 | TYR | 8 |
| 1 | A | 764 | SER | 8 |
| 1 | A | 856 | LEU | 8 |
| 1 | C | 826 | THR | 8 |
| 1 | A | 765 | LEU | 8 |
| 1 | C | 790 | TRP | 8 |
| 1 | C | 807 | LEU | 8 |
| 1 | C | 704 | LEU | 8 |
| 1 | C | 753 | LEU | 8 |
| 1 | A | 712 | TYR | 7 |
| 1 | A | 802 | TYR | 7 |
| 1 | B | 691 | SER | 7 |
| 1 | B | 742 | ARG | 7 |
| 1 | B | 772 | ARG | 7 |
| 1 | C | 692 | LEU | 7 |
| 1 | C | 758 | ASP | 7 |
| 1 | C | 834 | GLN | 7 |
| 1 | B | 712 | TYR | 7 |
| 1 | B | 842 | HIS | 7 |
| 1 | B | 709 | ARG | 7 |
| 1 | A | 709 | ARG | 6 |
| 1 | A | 742 | ARG | 6 |
| 1 | A | 758 | ASP | 6 |
| 1 | A | 814 | LEU | 6 |
| 1 | A | 841 | ARG | 6 |
| 1 | B | 780 | ARG | 6 |
| 1 | C | 774 | LEU | 6 |
| 1 | A | 752 | SER | 6 |
| 1 | A | 780 | ARG | 6 |
| 1 | A | 805 | GLN | 6 |
| 1 | A | 830 | ILE | 6 |
| 1 | B | 765 | LEU | 6 |
| 1 | C | 777 | ILE | 6 |
| 1 | C | 740 | ARG | 6 |
| 1 | C | 773 | ASP | 6 |
| 1 | A | 756 | ILE | 6 |
| 1 | A | 838 | ARG | 6 |
| 1 | A | 822 | VAL | 5 |
| 1 | B | 755 | LEU | 5 |
| 1 | B | 791 | GLU | 5 |
| 1 | C | 748 | LEU | 5 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | C | 752 | SER | 5 |
| 1 | C | 755 | LEU | 5 |
| 1 | B | 739 | GLU | 5 |
| 1 | B | 745 | SER | 5 |
| 1 | B | 746 | ILE | 5 |
| 1 | B | 764 | SER | 5 |
| 1 | A | 793 | LEU | 5 |
| 1 | B | 761 | ARG | 5 |
| 1 | B | 770 | ARG | 5 |
| 1 | B | 773 | ASP | 5 |
| 1 | C | 709 | ARG | 5 |
| 1 | C | 712 | TYR | 5 |
| 1 | C | 715 | LEU | 5 |
| 1 | A | 707 | ARG | 5 |
| 1 | A | 706 | ASN | 5 |
| 1 | C | 801 | GLN | 5 |
| 1 | A | 767 | SER | 4 |
| 1 | B | 740 | ARG | 4 |
| 1 | B | 741 | ASP | 4 |
| 1 | B | 805 | GLN | 4 |
| 1 | C | 780 | ARG | 4 |
| 1 | A | 695 | LEU | 4 |
| 1 | A | 708 | VAL | 4 |
| 1 | A | 740 | ARG | 4 |
| 1 | B | 697 | ILE | 4 |
| 1 | C | 710 | GLN | 4 |
| 1 | C | 775 | LEU | 4 |
| 1 | A | 715 | LEU | 4 |
| 1 | A | 776 | LEU | 4 |
| 1 | C | 707 | ARG | 4 |
| 1 | C | 848 | ARG | 4 |
| 1 | B | 814 | LEU | 4 |
| 1 | B | 846 | ARG | 4 |
| 1 | A | 774 | LEU | 4 |
| 1 | B | 753 | LEU | 4 |
| 1 | C | 741 | ASP | 4 |
| 1 | C | 842 | HIS | 4 |
| 1 | A | 713 | SER | 3 |
| 1 | A | 716 | SER | 3 |
| 1 | A | 741 | ASP | 3 |
| 1 | B | 704 | LEU | 3 |
| 1 | B | 795 | TYR | 3 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | B | 808 | LYS | 3 |
| 1 | B | 809 | ASN | 3 |
| 1 | B | 851 | LEU | 3 |
| 1 | C | 696 | ARG | 3 |
| 1 | C | 760 | LEU | 3 |
| 1 | C | 765 | LEU | 3 |
| 1 | C | 853 | ARG | 3 |
| 1 | A | 750 | ASN | 3 |
| 1 | A | 812 | VAL | 3 |
| 1 | B | 707 | ARG | 3 |
| 1 | B | 806 | GLU | 3 |
| 1 | C | 702 | LEU | 3 |
| 1 | C | 742 | ARG | 3 |
| 1 | C | 756 | ILE | 3 |
| 1 | C | 757 | TRP | 3 |
| 1 | C | 799 | LEU | 3 |
| 1 | C | 830 | ILE | 3 |
| 1 | A | 748 | LEU | 3 |
| 1 | A | 807 | LEU | 3 |
| 1 | A | 824 | GLU | 3 |
| 1 | A | 834 | GLN | 3 |
| 1 | B | 743 | ASP | 3 |
| 1 | B | 841 | ARG | 3 |
| 1 | C | 781 | ILE | 3 |
| 1 | A | 704 | LEU | 3 |
| 1 | A | 809 | ASN | 3 |
| 1 | A | 826 | THR | 3 |
| 1 | B | 703 | SER | 3 |
| 1 | B | 760 | LEU | 3 |
| 1 | B | 816 | ASN | 3 |
| 1 | B | 845 | ARG | 3 |
| 1 | C | 745 | SER | 3 |
| 1 | B | 716 | SER | 3 |
| 1 | B | 744 | ARG | 3 |
| 1 | B | 826 | THR | 3 |
| 1 | C | 713 | SER | 3 |
| 1 | C | 806 | GLU | 3 |
| 1 | C | 849 | GLN | 3 |
| 1 | A | 693 | ILE | 3 |
| 1 | C | 800 | LEU | 3 |
| 1 | C | 703 | SER | 3 |
| 1 | B | 696 | ARG | 3 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | C | 766 | PHE | 3 |
| 1 | A | 703 | SER | 2 |
| 1 | A | 743 | ASP | 2 |
| 1 | B | 710 | GLN | 2 |
| 1 | C | 699 | PHE | 2 |
| 1 | C | 708 | VAL | 2 |
| 1 | C | 810 | SER | 2 |
| 1 | C | 851 | LEU | 2 |
| 1 | A | 770 | ARG | 2 |
| 1 | B | 762 | SER | 2 |
| 1 | B | 767 | SER | 2 |
| 1 | B | 793 | LEU | 2 |
| 1 | A | 755 | LEU | 2 |
| 1 | A | 816 | ASN | 2 |
| 1 | C | 747 | ARG | 2 |
| 1 | C | 816 | ASN | 2 |
| 1 | B | 849 | GLN | 2 |
| 1 | C | 691 | SER | 2 |
| 1 | A | 791 | GLU | 2 |
| 1 | A | 820 | ILE | 2 |
| 1 | B | 847 | ILE | 2 |
| 1 | A | 698 | VAL | 2 |
| 1 | A | 798 | ASN | 2 |
| 1 | A | 849 | GLN | 2 |
| 1 | C | 805 | GLN | 2 |
| 1 | A | 760 | LEU | 2 |
| 1 | A | 790 | TRP | 2 |
| 1 | A | 739 | GLU | 2 |
| 1 | B | 785 | LEU | 2 |
| 1 | B | 856 | LEU | 2 |
| 1 | C | 852 | GLU | 2 |
| 1 | A | 762 | SER | 2 |
| 1 | A | 781 | ILE | 2 |
| 1 | A | 783 | GLU | 2 |
| 1 | B | 702 | LEU | 2 |
| 1 | C | 759 | ASP | 2 |
| 1 | B | 763 | LEU | 2 |
| 1 | B | 766 | PHE | 2 |
| 1 | A | 701 | VAL | 2 |
| 1 | A | 714 | PRO | 2 |
| 1 | B | 748 | LEU | 2 |
| 1 | C | 837 | SER | 2 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | C | 827 | ASP | 2 |
| 1 | C | 750 | ASN | 2 |
| 1 | A | 854 | ILE | 1 |
| 1 | B | 714 | PRO | 1 |
| 1 | B | 758 | ASP | 1 |
| 1 | C | 793 | LEU | 1 |
| 1 | C | 802 | TYR | 1 |
| 1 | C | 815 | LEU | 1 |
| 1 | C | 831 | GLU | 1 |
| 1 | A | 696 | ARG | 1 |
| 1 | A | 804 | SER | 1 |
| 1 | A | 810 | SER | 1 |
| 1 | B | 769 | HIS | 1 |
| 1 | B | 798 | ASN | 1 |
| 1 | B | 801 | GLN | 1 |
| 1 | C | 762 | SER | 1 |
| 1 | C | 769 | HIS | 1 |
| 1 | C | 783 | GLU | 1 |
| 1 | C | 791 | GLU | 1 |
| 1 | C | 840 | ILE | 1 |
| 1 | A | 766 | PHE | 1 |
| 1 | A | 777 | ILE | 1 |
| 1 | B | 800 | LEU | 1 |
| 1 | B | 804 | SER | 1 |
| 1 | B | 853 | ARG | 1 |
| 1 | A | 845 | ARG | 1 |
| 1 | B | 831 | GLU | 1 |
| 1 | B | 837 | SER | 1 |
| 1 | C | 856 | LEU | 1 |
| 1 | A | 846 | ARG | 1 |
| 1 | C | 695 | LEU | 1 |
| 1 | C | 804 | SER | 1 |
| 1 | C | 812 | VAL | 1 |
| 1 | A | 746 | ILE | 1 |
| 1 | B | 699 | PHE | 1 |
| 1 | B | 782 | VAL | 1 |
| 1 | C | 813 | SER | 1 |
| 1 | C | 798 | ASN | 1 |
| 1 | B | 779 | THR | 1 |
| 1 | B | 797 | TRP | 1 |
| 1 | C | 698 | VAL | 1 |
| 1 | C | 787 | ARG | 1 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 699 | PHE | 1 |
| 1 | A | 705 | VAL | 1 |
| 1 | A | 785 | LEU | 1 |
| 1 | A | 745 | SER | 1 |
| 1 | A | 837 | SER | 1 |
| 1 | B | 852 | GLU | 1 |
| 1 | C | 808 | LYS | 1 |
| 1 | A | 753 | LEU | 1 |
| 1 | A | 848 | ARG | 1 |
| 1 | A | 851 | LEU | 1 |
| 1 | C | 739 | GLU | 1 |
| 1 | C | 763 | LEU | 1 |
| 1 | C | 767 | SER | 1 |
| 1 | C | 845 | ARG | 1 |
| 1 | A | 702 | LEU | 1 |
| 1 | A | 749 | VAL | 1 |
| 1 | A | 852 | GLU | 1 |
| 1 | B | 706 | ASN | 1 |
| 1 | B | 822 | VAL | 1 |
| 1 | A | 827 | ASP | 1 |
| 1 | A | 831 | GLU | 1 |
| 1 | B | 855 | LEU | 1 |
| 1 | C | 779 | THR | 1 |

### 6.3.3 RNA

There are no RNA molecules in this entry.

## 6.4 Non-standard residues in protein, DNA, RNA chains

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

## 6.5 Carbohydrates

There are no monosaccharides in this entry.

## 6.6 Ligand geometry

There are no ligands in this entry.

## 6.7 Other polymers (i)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

# 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 8% for the well-defined parts and 8% for the entire structure.

## 7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *HIV1_gp41_TMD-CT_chemical_shifts.tab*

### 7.1.1 Bookkeeping

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 | 596 |
| Number of shifts mapped to atoms | 561 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 35 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 0 |

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 35 occurrences are reported below.

| List ID | Chain | Res | Type | Atom | Shift Data | | |
|---|---|---|---|---|---|---|---|
| | | | | | Value | Uncertainty | Ambiguity |
| 1 | A | 717 | PHE | H | 8.05 | 0.01 | 1 |
| 1 | A | 717 | PHE | C | 175.43 | 0.05 | 1 |
| 1 | A | 717 | PHE | CA | 57.49 | 0.05 | 1 |
| 1 | A | 717 | PHE | N | 120.86 | 0.03 | 1 |
| 1 | A | 718 | GLN | H | 8.13 | 0.01 | 1 |
| 1 | A | 718 | GLN | C | 175.94 | 0.05 | 1 |
| 1 | A | 718 | GLN | CA | 55.56 | 0.05 | 1 |
| 1 | A | 718 | GLN | N | 120.21 | 0.03 | 1 |
| 1 | A | 719 | THR | H | 8.03 | 0.01 | 1 |
| 1 | A | 719 | THR | CA | 61.81 | 0.05 | 1 |
| 1 | A | 719 | THR | N | 114.2 | 0.03 | 1 |
| 1 | A | 720 | HIS | C | 174.75 | 0.05 | 1 |
| 1 | A | 720 | HIS | CA | 55.7 | 0.05 | 1 |
| 1 | A | 721 | LEU | H | 8.02 | 0.01 | 1 |

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| List ID | Chain | Res | Type | Atom | Shift Data | | |
|---|---|---|---|---|---|---|---|
| | | | | | Value | Uncertainty | Ambiguity |
| 1 | A | 721 | LEU | CA | 52.47 | 0.05 | 1 |
| 1 | A | 721 | LEU | N | 123.97 | 0.03 | 1 |
| 1 | A | 722 | PRO | C | 176.74 | 0.05 | 1 |
| 1 | A | 722 | PRO | CA | 62.54 | 0.05 | 1 |
| 1 | A | 723 | THR | H | 8.15 | 0.01 | 1 |
| 1 | A | 723 | THR | CA | 59.45 | 0.05 | 1 |
| 1 | A | 723 | THR | N | 116.61 | 0.03 | 1 |
| 1 | A | 724 | PRO | C | 177.1 | 0.05 | 1 |
| 1 | A | 724 | PRO | CA | 62.91 | 0.05 | 1 |
| 1 | A | 725 | ARG | H | 8.45 | 0.01 | 1 |
| 1 | A | 725 | ARG | C | 177.14 | 0.05 | 1 |
| 1 | A | 725 | ARG | CA | 55.87 | 0.05 | 1 |
| 1 | A | 725 | ARG | N | 121.18 | 0.03 | 1 |
| 1 | A | 737 | GLY | H | 8.48 | 0.01 | 1 |
| 1 | A | 737 | GLY | C | 174.84 | 0.05 | 1 |
| 1 | A | 737 | GLY | CA | 45.06 | 0.05 | 1 |
| 1 | A | 737 | GLY | N | 110.12 | 0.03 | 1 |
| 1 | A | 738 | GLY | H | 8.32 | 0.01 | 1 |
| 1 | A | 738 | GLY | C | 174.61 | 0.05 | 1 |
| 1 | A | 738 | GLY | CA | 44.88 | 0.05 | 1 |
| 1 | A | 738 | GLY | N | 108.9 | 0.03 | 1 |

### 7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction ± precision, *ppm* | Suggested action |
|---|---|---|---|
| $^{13}C_{\alpha}$ | 157 | -0.02 ± 0.12 | None needed (< 0.5 ppm) |
| $^{13}C_{\beta}$ | 0 | — | None (insufficient data) |
| $^{13}C'$ | 145 | -0.29 ± 0.11 | None needed (< 0.5 ppm) |
| $^{15}N$ | 147 | 0.80 ± 0.18 | Should be applied |

### 7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 8%, i.e. 508 atoms were assigned a chemical shift out of a possible 6514. 0 out of 115 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}H$ | $^{13}C$ | $^{15}N$ |
|---|---|---|---|---|
| Backbone | 508/2187 (23%) | 126/891 (14%) | 256/868 (29%) | 126/428 (29%) |

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| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Sidechain | 0/3931 (0%) | 0/2570 (0%) | 0/1145 (0%) | 0/216 (0%) |
| Aromatic | 0/396 (0%) | 0/192 (0%) | 0/177 (0%) | 0/27 (0%) |
| Overall | 508/6514 (8%) | 126/3653 (3%) | 256/2190 (12%) | 126/671 (19%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 8%, i.e. 561 atoms were assigned a chemical shift out of a possible 7212. 0 out of 120 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Backbone | 561/2388 (23%) | 139/972 (14%) | 283/948 (30%) | 139/468 (30%) |
| Sidechain | 0/4299 (0%) | 0/2817 (0%) | 0/1254 (0%) | 0/228 (0%) |
| Aromatic | 0/525 (0%) | 0/255 (0%) | 0/237 (0%) | 0/33 (0%) |
| Overall | 561/7212 (8%) | 139/4044 (3%) | 283/2439 (12%) | 139/729 (19%) |

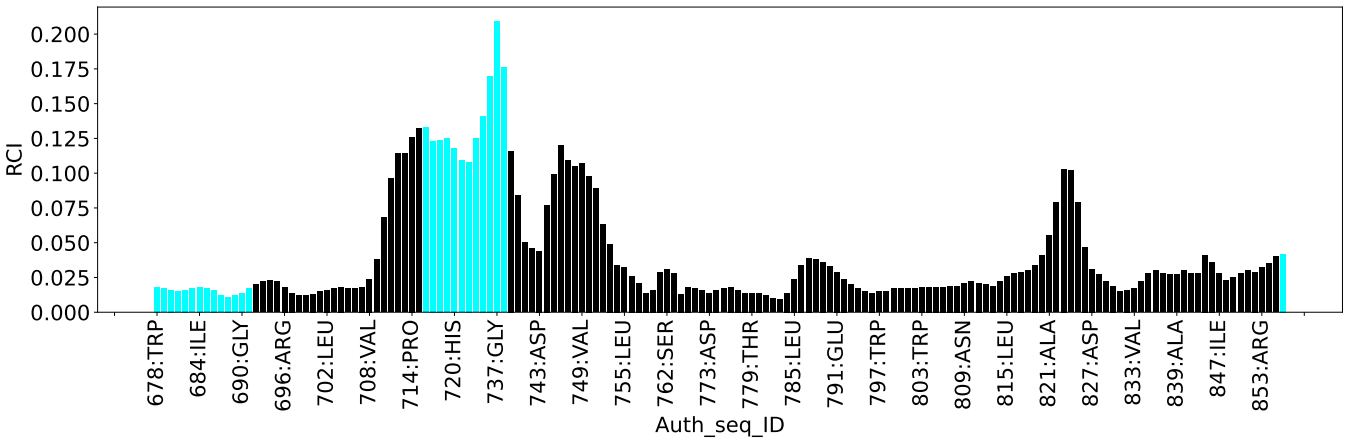
### 7.1.4 Statistically unusual chemical shifts (i)

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 | 1479 |
| Intra-residue (\|i-j\|=0) | 168 |
| Sequential (\|i-j\|=1) | 402 |
| Medium range (\|i-j\|>1 and \|i-j\|<5) | 483 |
| Long range (\|i-j\|≥5) | 168 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 258 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 278 |
| Number of unmapped restraints | 38 |
| Number of restraints per residue | 3.3 |
| Number of long range restraints per residue[1] | 0.3 |

[1]Long 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) | 97.4 | 0.2 |
| 0.2-0.5 (Medium) | 133.6 | 0.5 |
| >0.5 (Large) | 150.6 | 52.15 |

### 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) | 49.5 | 7.1 |
| 10.0-20.0 (Medium) | None | None |
| >20.0 (Large) | None | None |

# 9 Distance violation analysis (i)

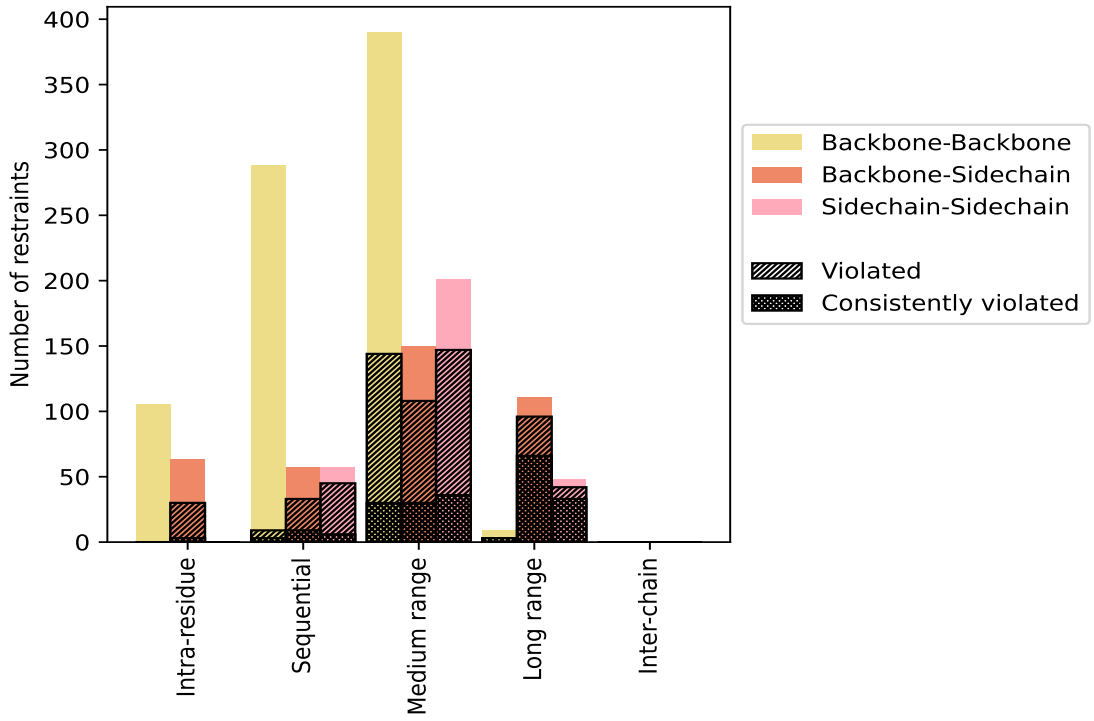
## 9.1 Summary of distance violations (i)

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

| Restraints type | Count | %[1] | Violated[3] | | | Consistently Violated[4] | | |
|---|---|---|---|---|---|---|---|---|
| | | | Count | %[2] | %[1] | Count | %[2] | %[1] |
| Intra-residue (\|i-j\|=0) | 168 | 11.4 | 30 | 17.9 | 2.0 | 3 | 1.8 | 0.2 |
| Backbone-Backbone | 105 | 7.1 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 63 | 4.3 | 30 | 47.6 | 2.0 | 3 | 4.8 | 0.2 |
| Sidechain-Sidechain | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sequential (\|i-j\|=1) | 402 | 27.2 | 87 | 21.6 | 5.9 | 18 | 4.5 | 1.2 |
| Backbone-Backbone | 288 | 19.5 | 9 | 3.1 | 0.6 | 3 | 1.0 | 0.2 |
| Backbone-Sidechain | 57 | 3.9 | 33 | 57.9 | 2.2 | 9 | 15.8 | 0.6 |
| Sidechain-Sidechain | 57 | 3.9 | 45 | 78.9 | 3.0 | 6 | 10.5 | 0.4 |
| Medium range (\|i-j\|>1 & \|i-j\|<5) | 483 | 32.7 | 327 | 67.7 | 22.1 | 87 | 18.0 | 5.9 |
| Backbone-Backbone | 132 | 8.9 | 72 | 54.5 | 4.9 | 21 | 15.9 | 1.4 |
| Backbone-Sidechain | 150 | 10.1 | 108 | 72.0 | 7.3 | 30 | 20.0 | 2.0 |
| Sidechain-Sidechain | 201 | 13.6 | 147 | 73.1 | 9.9 | 36 | 17.9 | 2.4 |
| Long range (\|i-j\|≥5) | 168 | 11.4 | 141 | 83.9 | 9.5 | 102 | 60.7 | 6.9 |
| Backbone-Backbone | 9 | 0.6 | 3 | 33.3 | 0.2 | 3 | 33.3 | 0.2 |
| Backbone-Sidechain | 111 | 7.5 | 96 | 86.5 | 6.5 | 66 | 59.5 | 4.5 |
| Sidechain-Sidechain | 48 | 3.2 | 42 | 87.5 | 2.8 | 33 | 68.8 | 2.2 |
| 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 | 258 | 17.4 | 72 | 27.9 | 4.9 | 9 | 3.5 | 0.6 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 1479 | 100.0 | 657 | 44.4 | 44.4 | 219 | 14.8 | 14.8 |
| Backbone-Backbone | 792 | 53.5 | 156 | 19.7 | 10.5 | 36 | 4.5 | 2.4 |
| Backbone-Sidechain | 381 | 25.8 | 267 | 70.1 | 18.1 | 108 | 28.3 | 7.3 |
| Sidechain-Sidechain | 306 | 20.7 | 234 | 76.5 | 15.8 | 75 | 24.5 | 5.1 |

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

### 9.1.1 Bar chart : Distribution of distance restraints and violations




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

## 9.2 Distance violation statistics for each model

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 | 12 | 45 | 222 | 126 | 0 | 405 | 6.06 | 51.47 | 11.7 | 0.31 |
| 2 | 15 | 51 | 210 | 117 | 0 | 393 | 6.2 | 51.14 | 11.7 | 0.38 |
| 3 | 9 | 51 | 219 | 111 | 0 | 390 | 6.28 | 49.94 | 11.75 | 0.34 |
| 4 | 12 | 45 | 201 | 120 | 0 | 378 | 6.36 | 50.23 | 11.73 | 0.32 |
| 5 | 9 | 45 | 201 | 111 | 0 | 366 | 6.59 | 50.88 | 11.94 | 0.38 |
| 6 | 9 | 45 | 228 | 120 | 0 | 402 | 6.01 | 51.02 | 11.53 | 0.33 |
| 7 | 18 | 39 | 222 | 117 | 0 | 396 | 6.14 | 50.65 | 11.65 | 0.36 |
| 8 | 9 | 39 | 219 | 123 | 0 | 390 | 6.32 | 51.09 | 11.86 | 0.35 |
| 9 | 12 | 45 | 210 | 114 | 0 | 381 | 6.28 | 51.27 | 11.61 | 0.34 |
| 10 | 15 | 39 | 201 | 117 | 0 | 372 | 6.61 | 50.99 | 12.08 | 0.38 |
| 11 | 12 | 45 | 207 | 117 | 0 | 381 | 6.36 | 50.43 | 11.74 | 0.32 |

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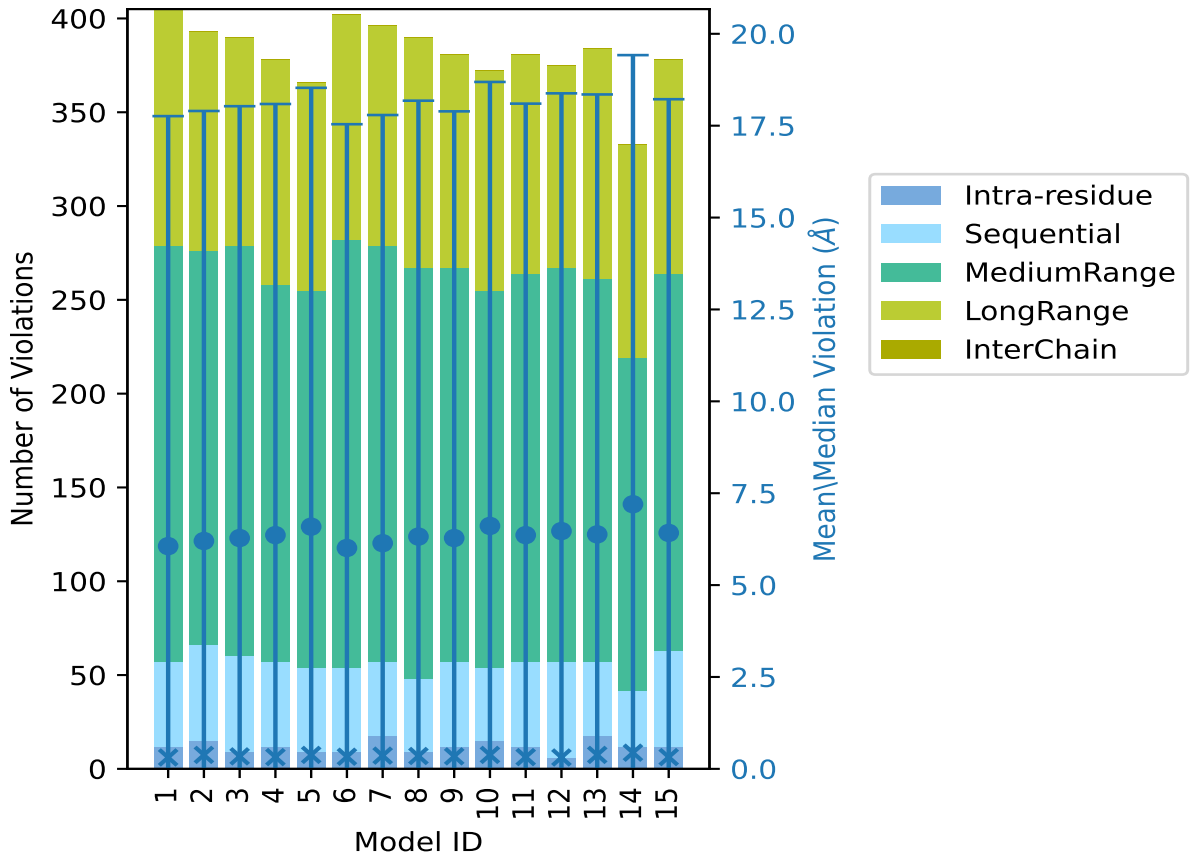
| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD[6] (Å) | Median (Å) |
|---|---|---|---|---|---|---|---|---|---|---|
| | IR[1] | SQ[2] | MR[3] | LR[4] | IC[5] | Total | | | | |
| 12 | 6 | 51 | 210 | 108 | 0 | 375 | 6.47 | 52.15 | 11.91 | 0.31 |
| 13 | 18 | 39 | 204 | 123 | 0 | 384 | 6.38 | 51.87 | 11.97 | 0.38 |
| 14 | 12 | 30 | 177 | 114 | 0 | 333 | 7.2 | 50.85 | 12.22 | 0.44 |
| 15 | 12 | 51 | 201 | 114 | 0 | 378 | 6.42 | 50.33 | 11.8 | 0.32 |

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

### 9.2.1 Bar graph : Distance Violation statistics for each model




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

## 9.3 Distance violation statistics for the ensemble

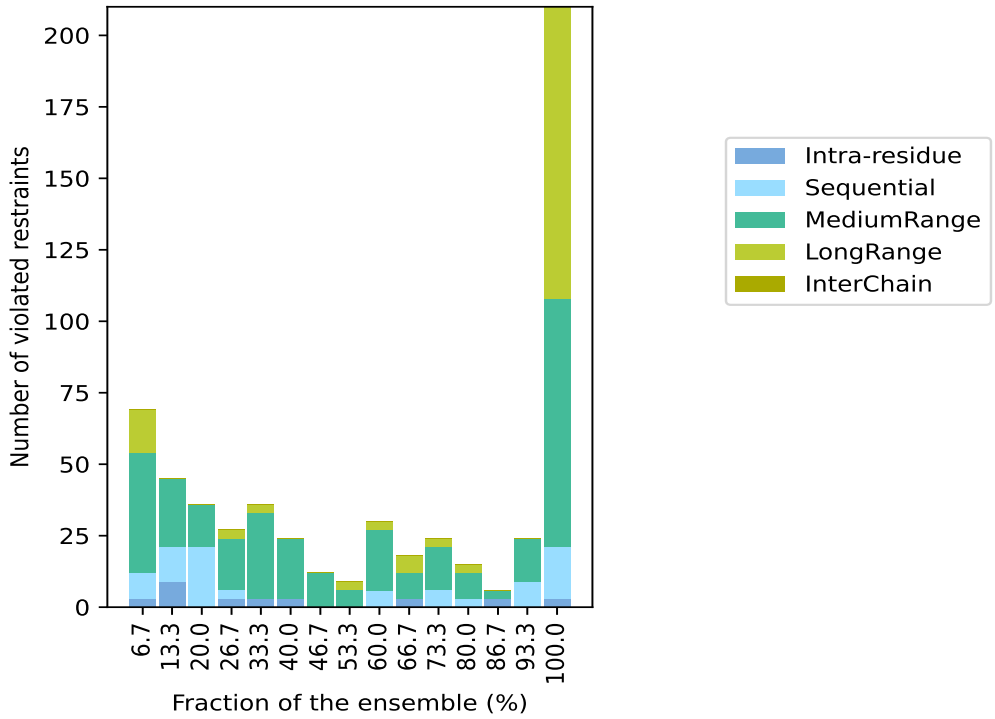
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints

for a given fraction of the ensemble. In total, 636(IR:138, SQ:315, MR:156, LR:27, 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] | % |
| 3 | 9 | 42 | 15 | 0 | 69 | 1 | 6.7 |
| 9 | 12 | 24 | 0 | 0 | 45 | 2 | 13.3 |
| 0 | 21 | 15 | 0 | 0 | 36 | 3 | 20.0 |
| 3 | 3 | 18 | 3 | 0 | 27 | 4 | 26.7 |
| 3 | 0 | 30 | 3 | 0 | 36 | 5 | 33.3 |
| 3 | 0 | 21 | 0 | 0 | 24 | 6 | 40.0 |
| 0 | 0 | 12 | 0 | 0 | 12 | 7 | 46.7 |
| 0 | 0 | 6 | 3 | 0 | 9 | 8 | 53.3 |
| 0 | 6 | 21 | 3 | 0 | 30 | 9 | 60.0 |
| 3 | 0 | 9 | 6 | 0 | 18 | 10 | 66.7 |
| 0 | 6 | 15 | 3 | 0 | 24 | 11 | 73.3 |
| 0 | 3 | 9 | 3 | 0 | 15 | 12 | 80.0 |
| 3 | 0 | 3 | 0 | 0 | 6 | 13 | 86.7 |
| 0 | 9 | 15 | 0 | 0 | 24 | 14 | 93.3 |
| 3 | 18 | 87 | 102 | 0 | 210 | 15 | 100.0 |

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

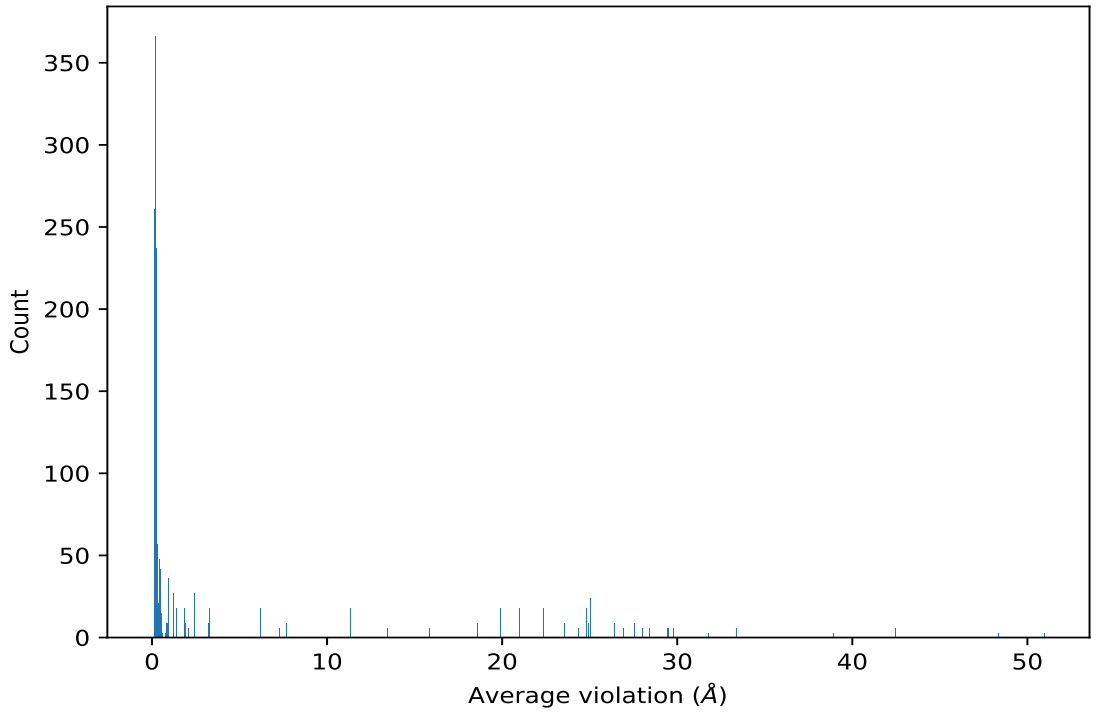
### 9.3.1 Bar graph : Distance violation statistics for the ensemble




## 9.4 Most violated distance restraints in the ensemble

### 9.4.1 Histogram : Distribution of mean distance violations

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) |
|---|---|---|---|---|---|---|
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.95 | 0.58 | 50.99 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.95 | 0.58 | 50.99 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.95 | 0.58 | 50.99 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 48.4 | 0.58 | 48.22 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 48.4 | 0.58 | 48.22 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 48.4 | 0.58 | 48.22 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.49 | 0.53 | 42.5 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.49 | 0.53 | 42.5 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.49 | 0.53 | 42.5 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.49 | 0.53 | 42.5 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.49 | 0.53 | 42.5 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.49 | 0.53 | 42.5 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 38.92 | 0.64 | 38.8 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 38.92 | 0.64 | 38.8 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 38.92 | 0.64 | 38.8 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.39 | 0.59 | 33.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.39 | 0.59 | 33.5 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.39 | 0.59 | 33.5 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.39 | 0.59 | 33.5 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.39 | 0.59 | 33.5 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.39 | 0.59 | 33.5 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 31.78 | 1.0 | 31.58 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 31.78 | 1.0 | 31.58 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 31.78 | 1.0 | 31.58 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.78 | 1.01 | 29.47 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.78 | 1.01 | 29.47 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.78 | 1.01 | 29.47 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.78 | 1.01 | 29.47 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.78 | 1.01 | 29.47 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.78 | 1.01 | 29.47 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.49 | 0.69 | 29.91 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.49 | 0.69 | 29.91 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.49 | 0.69 | 29.91 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.49 | 0.69 | 29.91 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.49 | 0.69 | 29.91 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.49 | 0.69 | 29.91 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.42 | 0.76 | 29.63 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.42 | 0.76 | 29.63 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.42 | 0.76 | 29.63 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.42 | 0.76 | 29.63 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.42 | 0.76 | 29.63 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.42 | 0.76 | 29.63 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.42 | 0.63 | 28.55 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.42 | 0.63 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.42 | 0.63 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.42 | 0.63 | 28.55 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.42 | 0.63 | 28.55 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.42 | 0.63 | 28.55 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 28.03 | 0.86 | 27.72 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 28.03 | 0.86 | 27.72 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 28.03 | 0.86 | 27.72 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 28.03 | 0.86 | 27.72 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 28.03 | 0.86 | 27.72 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 28.03 | 0.86 | 27.72 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.59 | 0.58 | 27.89 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.59 | 0.58 | 27.89 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.59 | 0.58 | 27.89 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.59 | 0.58 | 27.89 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.59 | 0.58 | 27.89 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.59 | 0.58 | 27.89 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.59 | 0.58 | 27.89 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.59 | 0.58 | 27.89 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.59 | 0.58 | 27.89 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.95 | 0.72 | 26.66 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.95 | 0.72 | 26.66 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.95 | 0.72 | 26.66 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.95 | 0.72 | 26.66 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.95 | 0.72 | 26.66 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.95 | 0.72 | 26.66 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 26.45 | 1.09 | 26.3 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.04 | 0.39 | 25.11 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.04 | 0.39 | 25.11 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.0 | 0.63 | 24.97 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.0 | 0.63 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.0 | 0.63 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.0 | 0.63 | 24.97 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.0 | 0.63 | 24.97 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.0 | 0.63 | 24.97 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.92 | 0.8 | 24.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.83 | 0.61 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.83 | 0.61 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.83 | 0.61 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.83 | 0.61 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.83 | 0.61 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.83 | 0.61 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.83 | 0.61 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.83 | 0.61 | 24.77 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.39 | 0.57 | 24.2 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.39 | 0.57 | 24.2 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.39 | 0.57 | 24.2 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.39 | 0.57 | 24.2 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.39 | 0.57 | 24.2 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.39 | 0.57 | 24.2 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 23.55 | 1.0 | 23.29 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 23.55 | 1.0 | 23.29 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 23.55 | 1.0 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 23.55 | 1.0 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 23.55 | 1.0 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 23.55 | 1.0 | 23.29 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 23.55 | 1.0 | 23.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 23.55 | 1.0 | 23.29 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 23.55 | 1.0 | 23.29 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 22.38 | 1.2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 22.38 | 1.2 | 22.23 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.99 | 0.38 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.99 | 0.38 | 21.0 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 19.95 | 0.84 | 19.68 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 19.95 | 0.84 | 19.68 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 18.58 | 0.88 | 18.58 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 18.58 | 0.88 | 18.58 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 18.58 | 0.88 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 18.58 | 0.88 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 18.58 | 0.88 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 18.58 | 0.88 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 18.58 | 0.88 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 18.58 | 0.88 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 18.58 | 0.88 | 18.58 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.87 | 0.62 | 15.89 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.87 | 0.62 | 15.89 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.87 | 0.62 | 15.89 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.87 | 0.62 | 15.89 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.87 | 0.62 | 15.89 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.87 | 0.62 | 15.89 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.46 | 0.53 | 13.48 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.46 | 0.53 | 13.48 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.46 | 0.53 | 13.48 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.46 | 0.53 | 13.48 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.46 | 0.53 | 13.48 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.46 | 0.53 | 13.48 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 11.31 | 0.77 | 11.3 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 11.31 | 0.77 | 11.3 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 7.69 | 0.72 | 7.71 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.28 | 0.57 | 7.37 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.28 | 0.57 | 7.37 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.28 | 0.57 | 7.37 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.28 | 0.57 | 7.37 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.28 | 0.57 | 7.37 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.28 | 0.57 | 7.37 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.22 | 0.47 | 6.19 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.22 | 0.47 | 6.19 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 3.29 | 0.81 | 3.51 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 3.29 | 0.81 | 3.51 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.22 | 0.57 | 3.1 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.22 | 0.57 | 3.1 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.22 | 0.57 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.22 | 0.57 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.22 | 0.57 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.22 | 0.57 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.22 | 0.57 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.22 | 0.57 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.22 | 0.57 | 3.1 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 | 0.08 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 | 0.08 | 2.43 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 2.06 | 0.36 | 2.03 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 2.06 | 0.36 | 2.03 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 2.06 | 0.36 | 2.03 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 2.06 | 0.36 | 2.03 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 2.06 | 0.36 | 2.03 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 2.06 | 0.36 | 2.03 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 1.91 | 0.33 | 1.94 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.86 | 0.43 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.86 | 0.43 | 1.9 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.41 | 0.33 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.41 | 0.33 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.41 | 0.33 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.41 | 0.33 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.41 | 0.33 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.41 | 0.33 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.41 | 0.33 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.41 | 0.33 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.41 | 0.33 | 1.44 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.22 | 0.07 | 1.25 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.92 | 0.26 | 0.75 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.92 | 0.26 | 0.75 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.87 | 0.13 | 0.87 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.87 | 0.13 | 0.87 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.87 | 0.13 | 0.87 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.82 | 0.08 | 0.81 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.82 | 0.08 | 0.81 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.82 | 0.08 | 0.81 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.82 | 0.08 | 0.81 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.82 | 0.08 | 0.81 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.82 | 0.08 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.82 | 0.08 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.82 | 0.08 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.82 | 0.08 | 0.81 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.76 | 0.14 | 0.8 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.76 | 0.14 | 0.8 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.76 | 0.14 | 0.8 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.64 | 0.04 | 0.65 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.64 | 0.04 | 0.65 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.64 | 0.04 | 0.65 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.53 | 0.18 | 0.58 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.53 | 0.18 | 0.58 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.53 | 0.18 | 0.58 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.52 | 0.09 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 | 0.11 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 | 0.11 | 0.49 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.48 | 0.1 | 0.5 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.48 | 0.1 | 0.5 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.48 | 0.1 | 0.5 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.46 | 0.08 | 0.45 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.45 | 0.09 | 0.44 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.45 | 0.09 | 0.44 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.45 | 0.09 | 0.44 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.43 | 0.14 | 0.45 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.43 | 0.1 | 0.43 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 | 0.08 | 0.45 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 | 0.08 | 0.45 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 | 0.08 | 0.45 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.41 | 0.12 | 0.41 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.41 | 0.12 | 0.41 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.41 | 0.12 | 0.41 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.41 | 0.12 | 0.41 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.41 | 0.12 | 0.41 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.41 | 0.12 | 0.41 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.39 | 0.05 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.39 | 0.05 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.39 | 0.05 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.39 | 0.05 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.39 | 0.05 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.39 | 0.05 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.39 | 0.05 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.39 | 0.05 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.39 | 0.05 | 0.4 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.35 | 0.04 | 0.35 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.35 | 0.04 | 0.35 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.35 | 0.04 | 0.35 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.33 | 0.08 | 0.3 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.33 | 0.08 | 0.3 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.33 | 0.08 | 0.3 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.32 | 0.12 | 0.3 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.32 | 0.12 | 0.3 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.32 | 0.12 | 0.3 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.32 | 0.06 | 0.31 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.32 | 0.06 | 0.31 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.32 | 0.06 | 0.31 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.31 | 0.14 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.31 | 0.14 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.31 | 0.14 | 0.27 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.31 | 0.14 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.31 | 0.08 | 0.32 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.31 | 0.14 | 0.27 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.31 | 0.14 | 0.27 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.3 | 0.11 | 0.26 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.3 | 0.11 | 0.26 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.3 | 0.11 | 0.26 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.3 | 0.08 | 0.3 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.29 | 0.06 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.29 | 0.06 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.29 | 0.06 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.29 | 0.06 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.29 | 0.06 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.29 | 0.06 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.29 | 0.06 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.29 | 0.06 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.29 | 0.06 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.29 | 0.06 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.29 | 0.06 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.29 | 0.06 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.29 | 0.06 | 0.29 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.27 | 0.05 | 0.27 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.27 | 0.05 | 0.27 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.27 | 0.05 | 0.27 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.27 | 0.05 | 0.27 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.27 | 0.05 | 0.27 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.27 | 0.05 | 0.27 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.26 | 0.07 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.26 | 0.07 | 0.26 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.26 | 0.09 | 0.22 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.26 | 0.09 | 0.22 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.26 | 0.09 | 0.22 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.25 | 0.08 | 0.27 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.25 | 0.08 | 0.27 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.25 | 0.08 | 0.27 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.25 | 0.05 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.25 | 0.05 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.22 | 0.05 | 0.22 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.22 | 0.05 | 0.22 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.2 | 0.05 | 0.2 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.2 | 0.07 | 0.18 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.2 | 0.07 | 0.18 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.2 | 0.07 | 0.18 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.19 | 0.05 | 0.21 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.19 | 0.05 | 0.21 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.18 | 0.01 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.18 | 0.01 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.18 | 0.01 | 0.18 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.23 | 0.72 | 1.46 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.23 | 0.72 | 1.46 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 0.93 | 0.49 | 0.94 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 0.93 | 0.49 | 0.94 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.31 | 0.1 | 0.29 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.31 | 0.1 | 0.29 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.31 | 0.1 | 0.29 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.3 | 0.09 | 0.3 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.3 | 0.09 | 0.3 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.29 | 0.14 | 0.24 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.24 | 0.05 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.24 | 0.05 | 0.22 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.24 | 0.05 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 14 | 0.21 | 0.04 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 14 | 0.21 | 0.04 | 0.22 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.21 | 0.05 | 0.2 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.21 | 0.05 | 0.2 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 1.35 | 0.66 | 1.46 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 1.35 | 0.66 | 1.46 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.52 | 0.2 | 0.58 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.52 | 0.2 | 0.58 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.52 | 0.2 | 0.58 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 13 | 0.27 | 0.08 | 0.25 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 13 | 0.27 | 0.08 | 0.25 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 13 | 0.27 | 0.08 | 0.25 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.25 | 0.06 | 0.27 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.25 | 0.06 | 0.27 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.25 | 0.06 | 0.27 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.21 | 0.03 | 0.21 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.21 | 0.03 | 0.21 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.21 | 0.03 | 0.21 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 12 | 0.4 | 0.11 | 0.4 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 12 | 0.4 | 0.11 | 0.4 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.3 | 0.07 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.3 | 0.07 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.3 | 0.07 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.3 | 0.07 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.3 | 0.07 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.3 | 0.07 | 0.29 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 | 0.04 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 | 0.04 | 0.26 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.23 | 0.09 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.23 | 0.09 | 0.2 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 12 | 0.2 | 0.08 | 0.18 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 12 | 0.2 | 0.08 | 0.18 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 12 | 0.2 | 0.08 | 0.18 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 12 | 0.18 | 0.06 | 0.16 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 12 | 0.18 | 0.06 | 0.16 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 12 | 0.18 | 0.06 | 0.16 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 12 | 0.18 | 0.06 | 0.16 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 12 | 0.18 | 0.06 | 0.16 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 12 | 0.18 | 0.06 | 0.16 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.3 | 0.08 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.3 | 0.08 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.3 | 0.08 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.3 | 0.08 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.3 | 0.08 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.3 | 0.08 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.3 | 0.08 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.3 | 0.08 | 0.31 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.27 | 0.09 | 0.29 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 11 | 0.26 | 0.13 | 0.23 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 11 | 0.26 | 0.13 | 0.23 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 11 | 0.26 | 0.13 | 0.23 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 11 | 0.26 | 0.13 | 0.23 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 11 | 0.26 | 0.13 | 0.23 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 11 | 0.26 | 0.13 | 0.23 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.23 | 0.08 | 0.22 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.23 | 0.08 | 0.22 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.23 | 0.08 | 0.22 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.22 | 0.05 | 0.22 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.22 | 0.05 | 0.22 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.22 | 0.05 | 0.22 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.19 | 0.06 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.19 | 0.06 | 0.19 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.19 | 0.08 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.19 | 0.08 | 0.17 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 11 | 0.16 | 0.04 | 0.16 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.28 | 0.07 | 0.28 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.28 | 0.07 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.28 | 0.07 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.28 | 0.07 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.28 | 0.07 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.28 | 0.07 | 0.28 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 10 | 0.25 | 0.08 | 0.28 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 10 | 0.25 | 0.08 | 0.28 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 10 | 0.25 | 0.08 | 0.28 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 10 | 0.23 | 0.09 | 0.2 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 | 0.05 | 0.18 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 | 0.05 | 0.18 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 | 0.05 | 0.18 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.18 | 0.07 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.18 | 0.07 | 0.16 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.18 | 0.07 | 0.16 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.18 | 0.07 | 0.16 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.18 | 0.07 | 0.16 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.18 | 0.07 | 0.16 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.16 | 0.04 | 0.16 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.16 | 0.04 | 0.16 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.16 | 0.04 | 0.16 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.16 | 0.04 | 0.16 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.16 | 0.04 | 0.16 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.16 | 0.04 | 0.16 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.38 | 0.15 | 0.36 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.38 | 0.15 | 0.36 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.38 | 0.15 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.38 | 0.15 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.38 | 0.15 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.38 | 0.15 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.38 | 0.15 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.38 | 0.15 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.38 | 0.15 | 0.36 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.31 | 0.14 | 0.27 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.27 | 0.1 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.27 | 0.1 | 0.23 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.25 | 0.09 | 0.26 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 9 | 0.25 | 0.06 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 9 | 0.25 | 0.06 | 0.25 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 0.24 | 0.08 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 0.24 | 0.08 | 0.24 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 9 | 0.19 | 0.06 | 0.18 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 9 | 0.19 | 0.06 | 0.18 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 9 | 0.19 | 0.06 | 0.18 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.18 | 0.06 | 0.16 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.18 | 0.06 | 0.16 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.18 | 0.06 | 0.16 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.15 | 0.03 | 0.14 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.15 | 0.03 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.15 | 0.03 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.15 | 0.03 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.15 | 0.03 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.15 | 0.03 | 0.14 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 9 | 0.14 | 0.03 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 9 | 0.14 | 0.03 | 0.13 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 8 | 0.19 | 0.04 | 0.2 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 8 | 0.19 | 0.04 | 0.2 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 8 | 0.19 | 0.04 | 0.2 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 8 | 0.19 | 0.04 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 8 | 0.19 | 0.04 | 0.2 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 8 | 0.19 | 0.04 | 0.2 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 8 | 0.19 | 0.04 | 0.2 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 8 | 0.19 | 0.04 | 0.2 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.18 | 0.05 | 0.16 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.18 | 0.07 | 0.16 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.18 | 0.07 | 0.16 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.18 | 0.07 | 0.16 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.18 | 0.07 | 0.16 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.18 | 0.07 | 0.16 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.18 | 0.07 | 0.16 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.23 | 0.07 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.23 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.22 | 0.07 | 0.21 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.22 | 0.07 | 0.21 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 7 | 0.2 | 0.09 | 0.17 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 7 | 0.19 | 0.06 | 0.18 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 6 | 0.89 | 0.05 | 0.89 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 6 | 0.89 | 0.05 | 0.89 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 6 | 0.89 | 0.05 | 0.89 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 6 | 0.89 | 0.05 | 0.89 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 6 | 0.89 | 0.05 | 0.89 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 6 | 0.89 | 0.05 | 0.89 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 6 | 0.23 | 0.07 | 0.2 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 6 | 0.22 | 0.07 | 0.2 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.19 | 0.07 | 0.18 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.19 | 0.07 | 0.18 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 6 | 0.19 | 0.04 | 0.21 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.19 | 0.07 | 0.18 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.17 | 0.05 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.17 | 0.05 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 | 0.01 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 | 0.01 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 | 0.01 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 | 0.01 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 | 0.01 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 | 0.01 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 | 0.01 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 | 0.01 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 | 0.01 | 0.16 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 6 | 0.13 | 0.03 | 0.12 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 6 | 0.13 | 0.03 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 6 | 0.13 | 0.03 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 6 | 0.13 | 0.03 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 6 | 0.13 | 0.03 | 0.12 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 6 | 0.13 | 0.03 | 0.12 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 5 | 0.42 | 0.13 | 0.39 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 5 | 0.42 | 0.13 | 0.39 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 5 | 0.42 | 0.13 | 0.39 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 5 | 0.22 | 0.05 | 0.21 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 5 | 0.22 | 0.05 | 0.21 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 5 | 0.22 | 0.13 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 5 | 0.22 | 0.13 | 0.16 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 | 0.04 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 | 0.04 | 0.21 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 5 | 0.2 | 0.03 | 0.19 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 5 | 0.19 | 0.02 | 0.18 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 5 | 0.19 | 0.02 | 0.18 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 5 | 0.19 | 0.02 | 0.18 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 5 | 0.19 | 0.02 | 0.18 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 5 | 0.19 | 0.02 | 0.18 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 5 | 0.19 | 0.02 | 0.18 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 5 | 0.19 | 0.06 | 0.18 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 5 | 0.19 | 0.06 | 0.18 |
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 5 | 0.19 | 0.06 | 0.18 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 5 | 0.16 | 0.03 | 0.17 |
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 5 | 0.16 | 0.03 | 0.17 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 5 | 0.16 | 0.03 | 0.17 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.15 | 0.03 | 0.14 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 5 | 0.15 | 0.03 | 0.13 |
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 5 | 0.15 | 0.03 | 0.13 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 5 | 0.15 | 0.03 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 5 | 0.14 | 0.03 | 0.14 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 5 | 0.14 | 0.03 | 0.14 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 5 | 0.13 | 0.02 | 0.12 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 5 | 0.13 | 0.02 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 5 | 0.13 | 0.02 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 5 | 0.13 | 0.02 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 5 | 0.13 | 0.02 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 5 | 0.13 | 0.02 | 0.12 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 5 | 0.12 | 0.01 | 0.12 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 5 | 0.12 | 0.01 | 0.12 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 5 | 0.12 | 0.01 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.12 | 0.01 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.12 | 0.01 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.12 | 0.01 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.12 | 0.01 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.12 | 0.01 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.12 | 0.01 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.12 | 0.01 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.12 | 0.01 | 0.11 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.12 | 0.01 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.12 | 0.01 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.12 | 0.01 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.12 | 0.01 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.12 | 0.01 | 0.11 |
| (1,257) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.26 | 0.07 | 0.24 |
| (1,598) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.26 | 0.07 | 0.24 |
| (1,939) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.26 | 0.07 | 0.24 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.24 | 0.13 | 0.18 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.24 | 0.13 | 0.18 |
| (1,199) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,199) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,199) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,199) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,199) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,199) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,540) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,881) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,881) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,881) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,881) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,881) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,881) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 4 | 0.19 | 0.07 | 0.18 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 4 | 0.17 | 0.03 | 0.16 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 4 | 0.17 | 0.03 | 0.16 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 4 | 0.17 | 0.03 | 0.16 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 4 | 0.17 | 0.03 | 0.16 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 4 | 0.17 | 0.03 | 0.16 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 4 | 0.17 | 0.03 | 0.16 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.17 | 0.06 | 0.15 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.17 | 0.06 | 0.15 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.17 | 0.06 | 0.15 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.17 | 0.06 | 0.15 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.17 | 0.07 | 0.14 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.17 | 0.07 | 0.14 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.17 | 0.06 | 0.15 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.17 | 0.06 | 0.15 |
| (1,371) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 4 | 0.16 | 0.02 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,712) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 4 | 0.16 | 0.02 | 0.16 |
| (1,1053) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 4 | 0.16 | 0.02 | 0.16 |
| (2,61) | 1:B:830:ILE:O | 1:B:834:GLN:H | 4 | 0.14 | 0.01 | 0.14 |
| (2,147) | 1:B:830:ILE:O | 1:B:834:GLN:H | 4 | 0.14 | 0.01 | 0.14 |
| (2,233) | 1:B:830:ILE:O | 1:B:834:GLN:H | 4 | 0.14 | 0.01 | 0.14 |
| (1,280) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 4 | 0.13 | 0.02 | 0.13 |
| (1,302) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 4 | 0.13 | 0.01 | 0.13 |
| (1,621) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 4 | 0.13 | 0.02 | 0.13 |
| (1,643) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 4 | 0.13 | 0.01 | 0.13 |
| (1,962) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 4 | 0.13 | 0.02 | 0.13 |
| (1,984) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 4 | 0.13 | 0.01 | 0.13 |
| (2,67) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.12 | 0.01 | 0.12 |
| (2,153) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.12 | 0.01 | 0.12 |
| (2,239) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.12 | 0.01 | 0.12 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 3 | 0.31 | 0.04 | 0.33 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 3 | 0.31 | 0.04 | 0.33 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 3 | 0.31 | 0.04 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 3 | 0.31 | 0.04 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 3 | 0.31 | 0.04 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 3 | 0.31 | 0.04 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 3 | 0.31 | 0.04 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 3 | 0.31 | 0.04 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 3 | 0.31 | 0.04 | 0.33 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.28 | 0.06 | 0.29 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.28 | 0.06 | 0.29 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.28 | 0.06 | 0.29 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.28 | 0.06 | 0.29 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.28 | 0.06 | 0.29 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.28 | 0.06 | 0.29 |
| (1,426) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,426) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,426) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,767) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,767) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,767) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 3 | 0.22 | 0.09 | 0.22 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.2 | 0.08 | 0.2 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.2 | 0.08 | 0.2 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 3 | 0.17 | 0.05 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 3 | 0.17 | 0.05 | 0.16 |
| (1,482) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 3 | 0.16 | 0.04 | 0.17 |
| (1,525) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 3 | 0.16 | 0.04 | 0.17 |
| (1,823) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 3 | 0.16 | 0.04 | 0.17 |
| (1,866) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 3 | 0.16 | 0.04 | 0.17 |
| (1,1164) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 3 | 0.16 | 0.04 | 0.17 |
| (1,1207) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 3 | 0.16 | 0.04 | 0.17 |
| (1,236) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,236) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,236) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,577) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,577) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,577) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,918) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,918) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,918) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 3 | 0.15 | 0.03 | 0.14 |
| (1,377) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,377) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,377) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,718) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,718) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,718) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 3 | 0.15 | 0.04 | 0.13 |
| (1,201) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,201) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,201) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,201) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,201) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,201) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 3 | 0.14 | 0.02 | 0.16 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 3 | 0.14 | 0.02 | 0.16 |
| (1,542) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,542) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,542) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,542) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,542) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,542) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 3 | 0.14 | 0.02 | 0.16 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 3 | 0.14 | 0.02 | 0.16 |
| (1,883) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,883) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,883) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,883) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,883) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,883) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 3 | 0.14 | 0.02 | 0.13 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 3 | 0.14 | 0.02 | 0.16 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 3 | 0.14 | 0.02 | 0.16 |
| (2,9) | 1:B:794:LYS:O | 1:B:798:ASN:H | 3 | 0.13 | 0.02 | 0.13 |
| (2,95) | 1:B:794:LYS:O | 1:B:798:ASN:H | 3 | 0.13 | 0.02 | 0.13 |
| (2,181) | 1:B:794:LYS:O | 1:B:798:ASN:H | 3 | 0.13 | 0.02 | 0.13 |
| (1,483) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 3 | 0.12 | 0.0 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,824) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,1165) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 3 | 0.12 | 0.0 | 0.12 |
| (1,419) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 2 | 0.37 | 0.24 | 0.37 |
| (1,760) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 2 | 0.37 | 0.24 | 0.37 |
| (1,1101) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 2 | 0.37 | 0.24 | 0.37 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 2 | 0.23 | 0.08 | 0.23 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 2 | 0.23 | 0.08 | 0.23 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 2 | 0.23 | 0.08 | 0.23 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 2 | 0.23 | 0.08 | 0.23 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 2 | 0.23 | 0.08 | 0.23 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 2 | 0.23 | 0.08 | 0.23 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 2 | 0.22 | 0.02 | 0.22 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 0.2 | 0.04 | 0.2 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 0.2 | 0.04 | 0.2 |
| (1,413) | 1:C:755:LEU:H | 1:C:756:ILE:H | 2 | 0.18 | 0.01 | 0.18 |
| (1,754) | 1:C:755:LEU:H | 1:C:756:ILE:H | 2 | 0.18 | 0.01 | 0.18 |
| (1,1095) | 1:C:755:LEU:H | 1:C:756:ILE:H | 2 | 0.18 | 0.01 | 0.18 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 2 | 0.18 | 0.03 | 0.18 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 2 | 0.18 | 0.03 | 0.18 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 2 | 0.18 | 0.03 | 0.18 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 2 | 0.18 | 0.03 | 0.18 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 2 | 0.18 | 0.03 | 0.18 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 2 | 0.18 | 0.03 | 0.18 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 2 | 0.18 | 0.03 | 0.18 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 2 | 0.18 | 0.03 | 0.18 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 2 | 0.18 | 0.03 | 0.18 |
| (1,313) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.16 | 0.04 | 0.16 |
| (1,654) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.16 | 0.04 | 0.16 |
| (1,995) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.16 | 0.04 | 0.16 |
| (2,11) | 1:B:795:TYR:O | 1:B:799:LEU:H | 2 | 0.16 | 0.01 | 0.16 |
| (2,97) | 1:B:795:TYR:O | 1:B:799:LEU:H | 2 | 0.16 | 0.01 | 0.16 |
| (2,183) | 1:B:795:TYR:O | 1:B:799:LEU:H | 2 | 0.16 | 0.01 | 0.16 |
| (1,273) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,273) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,273) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,614) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,614) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,614) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,955) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,955) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,955) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 2 | 0.15 | 0.02 | 0.15 |
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 2 | 0.15 | 0.03 | 0.15 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (1,407) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,407) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,407) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 2 | 0.14 | 0.03 | 0.14 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,748) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,748) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,748) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 2 | 0.14 | 0.03 | 0.14 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1089) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,1089) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,1089) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 2 | 0.14 | 0.03 | 0.14 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 2 | 0.14 | 0.03 | 0.14 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 2 | 0.14 | 0.03 | 0.14 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 2 | 0.13 | 0.0 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 2 | 0.13 | 0.0 | 0.13 |
| (2,24) | 1:B:801:GLN:O | 1:B:805:GLN:N | 2 | 0.12 | 0.01 | 0.12 |
| (2,110) | 1:B:801:GLN:O | 1:B:805:GLN:N | 2 | 0.12 | 0.01 | 0.12 |
| (2,196) | 1:B:801:GLN:O | 1:B:805:GLN:N | 2 | 0.12 | 0.01 | 0.12 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 2 | 0.12 | 0.0 | 0.12 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 2 | 0.12 | 0.0 | 0.12 |
| (2,56) | 1:B:827:ASP:O | 1:B:831:GLU:N | 2 | 0.12 | 0.0 | 0.12 |
| (2,62) | 1:B:830:ILE:O | 1:B:834:GLN:N | 2 | 0.12 | 0.0 | 0.12 |
| (2,142) | 1:B:827:ASP:O | 1:B:831:GLU:N | 2 | 0.12 | 0.0 | 0.12 |
| (2,148) | 1:B:830:ILE:O | 1:B:834:GLN:N | 2 | 0.12 | 0.0 | 0.12 |
| (2,228) | 1:B:827:ASP:O | 1:B:831:GLU:N | 2 | 0.12 | 0.0 | 0.12 |
| (2,234) | 1:B:830:ILE:O | 1:B:834:GLN:N | 2 | 0.12 | 0.0 | 0.12 |
| (1,224) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,224) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,224) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,344) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,565) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,565) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,565) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,685) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,906) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,906) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |

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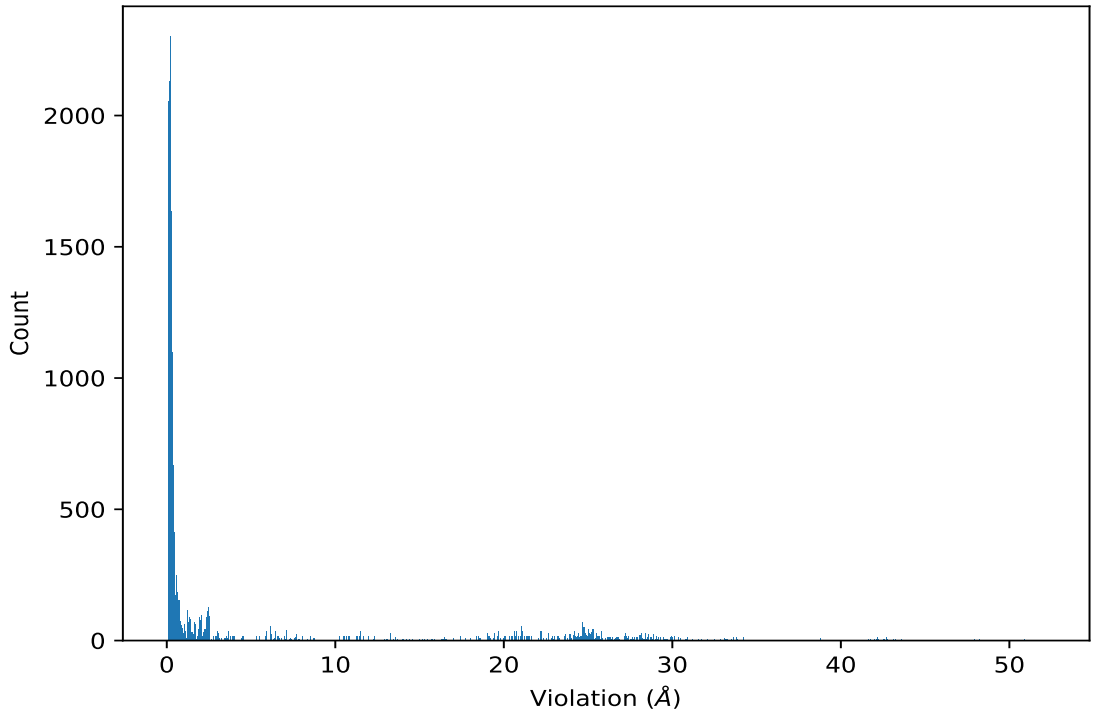
| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,906) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 | 0.0 | 0.11 |
| (1,1026) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 2 | 0.11 | 0.0 | 0.11 |

[1]Number of violated models, [2]Standard deviation

## 9.5 All violated distance restraints

### 9.5.1 Histogram : Distribution of distance violations

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

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) |
|---|---|---|---|---|
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 12 | 52.15 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 12 | 52.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 12 | 52.15 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 13 | 51.87 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 13 | 51.87 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 13 | 51.87 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 1 | 51.47 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 1 | 51.47 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 1 | 51.47 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 9 | 51.27 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 9 | 51.27 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 9 | 51.27 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 2 | 51.14 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 2 | 51.14 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 2 | 51.14 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 8 | 51.09 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 8 | 51.09 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 8 | 51.09 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 6 | 51.02 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 6 | 51.02 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 6 | 51.02 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 10 | 50.99 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 10 | 50.99 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 10 | 50.99 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 5 | 50.88 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 5 | 50.88 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 5 | 50.88 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 14 | 50.85 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 14 | 50.85 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 14 | 50.85 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 7 | 50.65 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 7 | 50.65 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 7 | 50.65 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 11 | 50.43 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 11 | 50.43 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 11 | 50.43 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.33 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.33 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 15 | 50.33 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 4 | 50.23 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 4 | 50.23 |
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 4 | 50.23 |
| (1,168) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 3 | 49.94 |
| (1,167) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 3 | 49.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,166) | 1:C:806:GLU:H | 1:C:772:ARG:HE | 3 | 49.94 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 12 | 49.84 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 12 | 49.84 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 12 | 49.84 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 13 | 49.44 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 13 | 49.44 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 13 | 49.44 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 1 | 48.92 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 1 | 48.92 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 1 | 48.92 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 6 | 48.65 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 6 | 48.65 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 6 | 48.65 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 2 | 48.56 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 2 | 48.56 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 2 | 48.56 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 14 | 48.41 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 14 | 48.41 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 14 | 48.41 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 10 | 48.33 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 10 | 48.33 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 10 | 48.33 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 8 | 48.22 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 8 | 48.22 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 8 | 48.22 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 11 | 48.21 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 11 | 48.21 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 11 | 48.21 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 5 | 48.03 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 5 | 48.03 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 5 | 48.03 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 4 | 47.97 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 4 | 47.97 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 4 | 47.97 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 3 | 47.94 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 47.94 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 3 | 47.94 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 47.94 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 3 | 47.94 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 15 | 47.94 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 7 | 47.86 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 7 | 47.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 7 | 47.86 |
| (1,165) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 9 | 47.75 |
| (1,164) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 9 | 47.75 |
| (1,163) | 1:C:806:GLU:H | 1:C:771:LEU:HG | 9 | 47.75 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 12 | 43.57 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 12 | 43.57 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 12 | 43.57 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 12 | 43.57 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 12 | 43.57 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 12 | 43.57 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 13 | 43.24 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 13 | 43.24 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 13 | 43.24 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 13 | 43.24 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 13 | 43.24 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 13 | 43.24 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 1 | 43.1 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 1 | 43.1 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 1 | 43.1 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 1 | 43.1 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 1 | 43.1 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 1 | 43.1 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 3 | 42.79 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 3 | 42.79 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 3 | 42.79 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 3 | 42.79 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 3 | 42.79 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 3 | 42.79 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.74 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.74 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.74 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.74 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 15 | 42.74 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 15 | 42.74 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 6 | 42.72 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 6 | 42.72 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 6 | 42.72 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 6 | 42.72 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 6 | 42.72 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 6 | 42.72 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 7 | 42.57 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 7 | 42.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 7 | 42.57 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 7 | 42.57 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 7 | 42.57 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 7 | 42.57 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 11 | 42.5 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 11 | 42.5 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 11 | 42.5 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 11 | 42.5 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 11 | 42.5 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 11 | 42.5 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 8 | 42.22 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 8 | 42.22 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 8 | 42.22 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 8 | 42.22 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 8 | 42.22 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 8 | 42.22 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 5 | 42.18 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 5 | 42.18 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 5 | 42.18 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 5 | 42.18 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 5 | 42.18 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 5 | 42.18 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 2 | 42.16 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 2 | 42.16 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 2 | 42.16 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 2 | 42.16 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 2 | 42.16 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 2 | 42.16 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 4 | 42.14 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 4 | 42.14 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 4 | 42.14 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 4 | 42.14 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 4 | 42.14 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 4 | 42.14 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 10 | 41.95 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 10 | 41.95 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 10 | 41.95 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 10 | 41.95 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 10 | 41.95 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 10 | 41.95 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 14 | 41.79 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 14 | 41.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 14 | 41.79 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 14 | 41.79 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 14 | 41.79 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 14 | 41.79 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 9 | 41.64 |
| (1,126) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 9 | 41.64 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 9 | 41.64 |
| (1,125) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 9 | 41.64 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB2 | 9 | 41.64 |
| (1,124) | 1:C:771:LEU:H | 1:C:806:GLU:HB3 | 9 | 41.64 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 3 | 40.08 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 3 | 40.08 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 3 | 40.08 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 6 | 40.0 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 6 | 40.0 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 6 | 40.0 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 39.51 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 39.51 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 15 | 39.51 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 4 | 39.4 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 4 | 39.4 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 4 | 39.4 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 11 | 39.31 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 11 | 39.31 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 11 | 39.31 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 13 | 39.07 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 13 | 39.07 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 13 | 39.07 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 10 | 38.93 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 10 | 38.93 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 10 | 38.93 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 2 | 38.8 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 2 | 38.8 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 2 | 38.8 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 1 | 38.79 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 5 | 38.79 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 12 | 38.79 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 1 | 38.79 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 5 | 38.79 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 12 | 38.79 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 1 | 38.79 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 5 | 38.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 12 | 38.79 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 9 | 38.32 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 9 | 38.32 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 9 | 38.32 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 14 | 38.16 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 14 | 38.16 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 14 | 38.16 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 8 | 38.08 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 8 | 38.08 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 8 | 38.08 |
| (1,162) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 7 | 37.83 |
| (1,161) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 7 | 37.83 |
| (1,160) | 1:C:803:TRP:HE1 | 1:C:764:SER:HG | 7 | 37.83 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 1 | 34.24 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 1 | 34.24 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 1 | 34.24 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 5 | 34.22 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 5 | 34.22 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 5 | 34.22 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 5 | 34.22 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 5 | 34.22 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 5 | 34.22 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 3 | 34.21 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 3 | 34.21 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 3 | 34.21 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 3 | 34.21 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 3 | 34.21 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 3 | 34.21 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 6 | 33.88 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 6 | 33.88 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 6 | 33.88 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 6 | 33.88 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 6 | 33.88 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 6 | 33.88 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 12 | 33.84 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 12 | 33.84 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.84 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.84 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 12 | 33.84 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 12 | 33.84 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.84 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 12 | 33.84 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 12 | 33.84 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 15 | 33.84 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 15 | 33.84 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 4 | 33.63 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 4 | 33.63 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 4 | 33.63 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 4 | 33.63 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 4 | 33.63 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 4 | 33.63 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 11 | 33.62 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 11 | 33.62 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 11 | 33.62 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 11 | 33.62 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 11 | 33.62 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 11 | 33.62 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 1 | 33.5 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 1 | 33.5 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 1 | 33.5 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 1 | 33.5 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 1 | 33.5 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 1 | 33.5 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 2 | 33.28 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 2 | 33.28 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 2 | 33.28 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 2 | 33.28 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 2 | 33.28 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 2 | 33.28 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 7 | 33.2 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 7 | 33.2 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 7 | 33.2 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 7 | 33.2 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 7 | 33.2 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 7 | 33.2 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 10 | 33.16 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 10 | 33.16 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 10 | 33.16 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 10 | 33.16 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 10 | 33.16 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 10 | 33.16 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 14 | 33.06 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 14 | 33.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 14 | 33.06 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 14 | 33.06 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 14 | 33.06 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 14 | 33.06 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 10 | 33.06 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 10 | 33.06 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 10 | 33.06 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 13 | 32.91 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 13 | 32.91 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 13 | 32.91 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 13 | 32.85 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 13 | 32.85 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 13 | 32.85 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 13 | 32.85 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 13 | 32.85 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 13 | 32.85 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 8 | 32.47 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 8 | 32.47 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 8 | 32.47 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 8 | 32.47 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 8 | 32.47 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 8 | 32.47 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 8 | 32.42 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 8 | 32.42 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 8 | 32.42 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 2 | 32.3 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 2 | 32.3 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 2 | 32.3 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 9 | 32.05 |
| (1,159) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 9 | 32.05 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 9 | 32.05 |
| (1,158) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 9 | 32.05 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB2 | 9 | 32.05 |
| (1,157) | 1:C:803:TRP:HE1 | 1:C:764:SER:HB3 | 9 | 32.05 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 3 | 31.73 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 3 | 31.73 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 3 | 31.73 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 11 | 31.7 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 11 | 31.7 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 11 | 31.7 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 6 | 31.58 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 6 | 31.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 6 | 31.58 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 10 | 31.51 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 10 | 31.51 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 10 | 31.51 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 10 | 31.51 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 10 | 31.51 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 10 | 31.51 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 7 | 31.42 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 7 | 31.42 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 7 | 31.42 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 8 | 31.2 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 8 | 31.2 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 8 | 31.2 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 8 | 31.2 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 8 | 31.2 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 8 | 31.2 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 12 | 31.17 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 12 | 31.17 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 12 | 31.17 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 5 | 31.13 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 5 | 31.13 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 5 | 31.13 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 14 | 30.98 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 14 | 30.98 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 14 | 30.98 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 2 | 30.92 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 2 | 30.92 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 2 | 30.92 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 2 | 30.92 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 2 | 30.92 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 2 | 30.92 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 13 | 30.9 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 13 | 30.9 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 13 | 30.9 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 13 | 30.9 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 13 | 30.9 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 13 | 30.9 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 30.85 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 30.85 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 15 | 30.85 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 10 | 30.82 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 10 | 30.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 10 | 30.82 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 10 | 30.82 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 10 | 30.82 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 10 | 30.82 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 1 | 30.77 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 1 | 30.77 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 1 | 30.77 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 1 | 30.77 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 1 | 30.77 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 1 | 30.77 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 9 | 30.74 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 9 | 30.74 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 9 | 30.74 |
| (1,120) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 4 | 30.49 |
| (1,119) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 4 | 30.49 |
| (1,118) | 1:C:756:ILE:H | 1:C:796:TRP:HE1 | 4 | 30.49 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 8 | 30.47 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 8 | 30.47 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 8 | 30.47 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 8 | 30.47 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 8 | 30.47 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 8 | 30.47 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 8 | 30.39 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 8 | 30.39 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 8 | 30.39 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 8 | 30.39 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 8 | 30.39 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 8 | 30.39 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 10 | 30.36 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 10 | 30.36 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 10 | 30.36 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 10 | 30.36 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 10 | 30.36 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 10 | 30.36 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 3 | 30.11 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 3 | 30.11 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 3 | 30.11 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 3 | 30.11 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 3 | 30.11 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 3 | 30.11 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 7 | 30.1 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 7 | 30.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 7 | 30.1 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 7 | 30.1 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 7 | 30.1 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 7 | 30.1 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 13 | 30.1 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 13 | 30.1 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 13 | 30.1 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 13 | 30.1 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 13 | 30.1 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 13 | 30.1 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 3 | 30.04 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 3 | 30.04 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 3 | 30.04 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 3 | 30.04 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 3 | 30.04 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 3 | 30.04 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 5 | 30.02 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 5 | 30.02 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 5 | 30.02 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 5 | 30.02 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 5 | 30.02 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 5 | 30.02 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 7 | 29.99 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 7 | 29.99 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 14 | 29.99 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 14 | 29.99 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 7 | 29.99 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 7 | 29.99 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 14 | 29.99 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 14 | 29.99 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 7 | 29.99 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 7 | 29.99 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 14 | 29.99 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 14 | 29.99 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 13 | 29.97 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 13 | 29.97 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 13 | 29.97 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 13 | 29.97 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 13 | 29.97 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 13 | 29.97 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 2 | 29.91 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 2 | 29.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 2 | 29.91 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 2 | 29.91 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 2 | 29.91 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 2 | 29.91 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 5 | 29.87 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 5 | 29.87 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 5 | 29.87 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 5 | 29.87 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 5 | 29.87 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 5 | 29.87 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 3 | 29.85 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 3 | 29.85 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 3 | 29.85 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 3 | 29.85 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 3 | 29.85 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 3 | 29.85 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 14 | 29.72 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 14 | 29.72 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 14 | 29.72 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 14 | 29.72 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 14 | 29.72 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 14 | 29.72 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 7 | 29.65 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 7 | 29.65 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 7 | 29.65 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 7 | 29.65 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 7 | 29.65 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 7 | 29.65 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 2 | 29.63 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 2 | 29.63 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 2 | 29.63 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 2 | 29.63 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 2 | 29.63 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 2 | 29.63 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 1 | 29.55 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 1 | 29.55 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 1 | 29.55 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 1 | 29.55 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 1 | 29.55 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 1 | 29.55 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 13 | 29.5 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 13 | 29.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 13 | 29.5 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 13 | 29.5 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 13 | 29.5 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 13 | 29.5 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 12 | 29.49 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 12 | 29.49 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 12 | 29.49 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 12 | 29.49 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 12 | 29.49 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 12 | 29.49 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 12 | 29.47 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 12 | 29.47 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 12 | 29.47 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 12 | 29.47 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 12 | 29.47 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 12 | 29.47 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 6 | 29.26 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 6 | 29.26 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 6 | 29.26 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 6 | 29.26 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 6 | 29.26 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 6 | 29.26 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 11 | 29.25 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 11 | 29.25 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 11 | 29.25 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 11 | 29.25 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 11 | 29.25 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 11 | 29.25 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 8 | 29.16 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 8 | 29.16 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 8 | 29.16 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 8 | 29.16 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 8 | 29.16 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 8 | 29.16 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 9 | 29.15 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 9 | 29.15 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 9 | 29.15 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 9 | 29.15 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 9 | 29.15 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 9 | 29.15 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.13 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.13 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.13 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 15 | 29.13 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 15 | 29.13 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 1 | 29.09 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 1 | 29.09 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 1 | 29.09 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 1 | 29.09 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 1 | 29.09 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 1 | 29.09 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 6 | 29.08 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 6 | 29.08 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 6 | 29.08 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 6 | 29.08 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 6 | 29.08 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 6 | 29.08 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.05 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.05 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.05 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.05 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 15 | 29.05 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 15 | 29.05 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.01 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.01 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.01 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.01 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 15 | 29.01 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 15 | 29.01 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 4 | 28.97 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 4 | 28.97 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 4 | 28.97 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 4 | 28.97 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 4 | 28.97 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 4 | 28.97 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 11 | 28.88 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 11 | 28.88 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 11 | 28.88 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 11 | 28.88 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 11 | 28.88 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 11 | 28.88 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 14 | 28.87 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 14 | 28.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 14 | 28.87 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 14 | 28.87 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 14 | 28.87 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 14 | 28.87 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 1 | 28.85 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 1 | 28.85 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 1 | 28.85 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 1 | 28.85 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 1 | 28.85 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 1 | 28.85 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 10 | 28.85 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 10 | 28.85 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 10 | 28.85 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 10 | 28.85 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 10 | 28.85 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 10 | 28.85 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 6 | 28.8 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 6 | 28.8 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 6 | 28.8 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 6 | 28.8 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 6 | 28.8 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 6 | 28.8 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 11 | 28.78 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 11 | 28.78 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 11 | 28.78 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 11 | 28.78 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 11 | 28.78 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 11 | 28.78 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 6 | 28.75 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 6 | 28.75 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 6 | 28.75 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 6 | 28.75 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 6 | 28.75 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 6 | 28.75 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 9 | 28.74 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 9 | 28.74 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 9 | 28.74 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 9 | 28.74 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 9 | 28.74 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 9 | 28.74 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.74 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.74 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.74 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 15 | 28.74 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 15 | 28.74 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 4 | 28.69 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 4 | 28.69 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 4 | 28.69 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 4 | 28.69 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 4 | 28.69 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 4 | 28.69 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 5 | 28.69 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 5 | 28.69 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 5 | 28.69 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 5 | 28.69 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 5 | 28.69 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 5 | 28.69 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 2 | 28.59 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 2 | 28.59 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 2 | 28.59 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 2 | 28.59 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 2 | 28.59 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 2 | 28.59 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 1 | 28.58 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 1 | 28.58 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 1 | 28.58 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 1 | 28.58 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 1 | 28.58 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 1 | 28.58 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 3 | 28.55 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 3 | 28.55 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 11 | 28.55 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 11 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 3 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 3 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 11 | 28.55 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 11 | 28.55 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 3 | 28.55 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 3 | 28.55 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 11 | 28.55 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 11 | 28.55 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 5 | 28.51 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 5 | 28.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 5 | 28.51 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 5 | 28.51 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 5 | 28.51 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 5 | 28.51 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 10 | 28.51 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 10 | 28.51 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 10 | 28.51 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 10 | 28.51 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 10 | 28.51 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 10 | 28.51 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 1 | 28.45 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 1 | 28.45 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 1 | 28.45 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 1 | 28.45 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 1 | 28.45 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 1 | 28.45 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 8 | 28.43 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 10 | 28.43 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 10 | 28.43 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 10 | 28.43 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 10 | 28.43 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 10 | 28.43 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 10 | 28.43 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 10 | 28.43 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 10 | 28.43 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 10 | 28.43 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 4 | 28.42 |
| (1,138) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 4 | 28.42 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 4 | 28.42 |
| (1,137) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 4 | 28.42 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB2 | 4 | 28.42 |
| (1,136) | 1:C:792:ALA:H | 1:C:752:SER:HB3 | 4 | 28.42 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 9 | 28.4 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 9 | 28.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 9 | 28.4 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 9 | 28.4 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 9 | 28.4 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 9 | 28.4 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 12 | 28.39 |
| (1,129) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 12 | 28.39 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 12 | 28.39 |
| (1,128) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 12 | 28.39 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG12 | 12 | 28.39 |
| (1,127) | 1:C:781:ILE:H | 1:C:746:ILE:HG13 | 12 | 28.39 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 2 | 28.34 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 2 | 28.34 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 2 | 28.34 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 2 | 28.34 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 2 | 28.34 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 2 | 28.34 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 9 | 28.26 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 9 | 28.26 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 9 | 28.26 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 9 | 28.26 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 9 | 28.26 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 9 | 28.26 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 3 | 28.23 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 3 | 28.23 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 3 | 28.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 3 | 28.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 3 | 28.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 3 | 28.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 3 | 28.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 3 | 28.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 3 | 28.23 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 7 | 28.19 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 8 | 28.17 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 8 | 28.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 8 | 28.17 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 8 | 28.17 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 8 | 28.17 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 8 | 28.17 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 8 | 28.17 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 8 | 28.17 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 8 | 28.17 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 13 | 28.16 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 13 | 28.16 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 13 | 28.16 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 13 | 28.16 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 13 | 28.16 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 13 | 28.16 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 12 | 28.16 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 12 | 28.16 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 12 | 28.16 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 12 | 28.16 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 12 | 28.16 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 12 | 28.16 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 12 | 28.14 |
| (1,132) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 12 | 28.14 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 12 | 28.14 |
| (1,131) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 12 | 28.14 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG12 | 12 | 28.14 |
| (1,130) | 1:C:782:VAL:H | 1:C:746:ILE:HG13 | 12 | 28.14 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 3 | 28.12 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 3 | 28.12 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 3 | 28.12 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 3 | 28.12 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 3 | 28.12 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 3 | 28.12 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 2 | 28.11 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 2 | 28.11 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 2 | 28.11 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 2 | 28.11 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 2 | 28.11 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 2 | 28.11 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 2 | 28.11 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 2 | 28.11 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 2 | 28.11 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 8 | 28.08 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 8 | 28.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 8 | 28.08 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 8 | 28.08 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 8 | 28.08 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 8 | 28.08 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 7 | 28.07 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 7 | 28.07 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 7 | 28.07 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 7 | 28.07 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 7 | 28.07 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 7 | 28.07 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 7 | 28.07 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 7 | 28.07 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 7 | 28.07 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 13 | 28.06 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 13 | 28.06 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 13 | 28.06 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 13 | 28.06 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 13 | 28.06 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 13 | 28.06 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 5 | 28.0 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 5 | 28.0 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 5 | 28.0 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 5 | 28.0 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 5 | 28.0 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 5 | 28.0 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 5 | 28.0 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 5 | 28.0 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 5 | 28.0 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 14 | 27.91 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 14 | 27.91 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 14 | 27.91 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 14 | 27.91 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 14 | 27.91 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 14 | 27.91 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 14 | 27.91 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 14 | 27.91 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 14 | 27.91 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 8 | 27.91 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 8 | 27.91 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 8 | 27.91 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 8 | 27.91 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 8 | 27.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 8 | 27.91 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 13 | 27.89 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 13 | 27.89 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 13 | 27.89 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 13 | 27.89 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 13 | 27.89 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 13 | 27.89 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 13 | 27.89 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 13 | 27.89 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 13 | 27.89 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 4 | 27.89 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 4 | 27.89 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 4 | 27.89 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 4 | 27.89 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 4 | 27.89 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 4 | 27.89 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 6 | 27.72 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 6 | 27.72 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 6 | 27.72 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 6 | 27.72 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 6 | 27.72 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 6 | 27.72 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 11 | 27.71 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 11 | 27.71 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 11 | 27.71 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 11 | 27.71 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 11 | 27.71 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 11 | 27.71 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 14 | 27.66 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 14 | 27.66 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 14 | 27.66 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 14 | 27.66 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 14 | 27.66 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 14 | 27.66 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 10 | 27.62 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 10 | 27.62 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 10 | 27.62 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 10 | 27.62 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 10 | 27.62 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 10 | 27.62 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 7 | 27.62 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 7 | 27.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 7 | 27.62 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 7 | 27.62 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 7 | 27.62 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 7 | 27.62 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 27.57 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 27.57 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 27.57 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 27.57 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 15 | 27.57 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 15 | 27.57 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 9 | 27.54 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 9 | 27.54 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 9 | 27.54 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 9 | 27.54 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 9 | 27.54 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 9 | 27.54 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 4 | 27.38 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.38 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.38 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.38 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.38 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.38 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.38 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 15 | 27.38 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 15 | 27.38 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 15 | 27.38 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 3 | 27.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 3 | 27.34 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 15 | 27.29 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 10 | 27.29 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 1 | 27.23 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 1 | 27.23 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 1 | 27.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 1 | 27.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 1 | 27.23 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 1 | 27.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 1 | 27.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 1 | 27.23 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 1 | 27.23 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 2 | 27.23 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 2 | 27.23 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 2 | 27.23 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 2 | 27.23 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 2 | 27.23 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 2 | 27.23 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 4 | 27.23 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 4 | 27.23 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 4 | 27.23 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 4 | 27.23 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 4 | 27.23 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 4 | 27.23 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 3 | 27.21 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 3 | 27.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 3 | 27.21 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 3 | 27.21 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 3 | 27.21 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 3 | 27.21 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 4 | 27.19 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 4 | 27.19 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 4 | 27.19 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 4 | 27.19 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 4 | 27.19 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 4 | 27.19 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 4 | 27.19 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 4 | 27.19 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 4 | 27.19 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 11 | 27.15 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 11 | 27.15 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 11 | 27.15 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 11 | 27.15 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 11 | 27.15 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 11 | 27.15 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 11 | 27.15 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 11 | 27.15 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 11 | 27.15 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 5 | 26.88 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 5 | 26.88 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 5 | 26.88 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 5 | 26.88 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 5 | 26.88 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 5 | 26.88 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 6 | 26.81 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 6 | 26.81 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 6 | 26.81 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 6 | 26.81 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 6 | 26.81 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 6 | 26.81 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 6 | 26.81 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 6 | 26.81 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 6 | 26.81 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 7 | 26.8 |
| (1,123) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 7 | 26.8 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 7 | 26.8 |
| (1,122) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 7 | 26.8 |
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD2 | 7 | 26.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,121) | 1:C:756:ILE:H | 1:C:794:LYS:HD3 | 7 | 26.8 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 11 | 26.73 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 11 | 26.73 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 11 | 26.73 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 11 | 26.73 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 11 | 26.73 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 11 | 26.73 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 9 | 26.71 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 9 | 26.71 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 9 | 26.71 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 9 | 26.71 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 9 | 26.71 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 9 | 26.71 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 9 | 26.71 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 9 | 26.71 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 9 | 26.71 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 12 | 26.66 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 12 | 26.66 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 12 | 26.66 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 12 | 26.66 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 12 | 26.66 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 12 | 26.66 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 14 | 26.65 |
| (1,114) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 14 | 26.65 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 14 | 26.65 |
| (1,113) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 14 | 26.65 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB2 | 14 | 26.65 |
| (1,112) | 1:C:756:ILE:H | 1:C:795:TYR:HB3 | 14 | 26.65 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 12 | 26.64 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 12 | 26.64 |
| (1,96) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 12 | 26.64 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 12 | 26.64 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 12 | 26.64 |
| (1,95) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 12 | 26.64 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG21 | 12 | 26.64 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG22 | 12 | 26.64 |
| (1,94) | 1:C:781:ILE:H | 1:C:746:ILE:HG23 | 12 | 26.64 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.57 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.57 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.57 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.57 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 15 | 26.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 15 | 26.57 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 10 | 26.45 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 6 | 26.45 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 6 | 26.45 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 6 | 26.45 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 6 | 26.45 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 6 | 26.45 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 6 | 26.45 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 13 | 26.44 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 9 | 26.39 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 9 | 26.39 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 9 | 26.39 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 9 | 26.39 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 9 | 26.39 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 9 | 26.39 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 5 | 26.31 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 5 | 26.31 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 5 | 26.31 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 5 | 26.31 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 5 | 26.31 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 5 | 26.31 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 14 | 26.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 14 | 26.3 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 7 | 26.29 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 7 | 26.29 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 7 | 26.29 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 7 | 26.29 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 7 | 26.29 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 7 | 26.29 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 8 | 26.28 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 8 | 26.28 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 8 | 26.28 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 8 | 26.28 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 8 | 26.28 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 8 | 26.28 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 5 | 26.23 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 14 | 26.22 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 14 | 26.22 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 14 | 26.22 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 14 | 26.22 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 14 | 26.22 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 14 | 26.22 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 4 | 26.19 |
| (1,117) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 4 | 26.19 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 4 | 26.19 |
| (1,116) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 4 | 26.19 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD1 | 4 | 26.19 |
| (1,115) | 1:C:756:ILE:H | 1:C:795:TYR:HD2 | 4 | 26.19 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 11 | 26.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 11 | 26.17 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 2 | 26.02 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 1 | 25.85 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 10 | 25.82 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 10 | 25.82 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 10 | 25.82 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 1 | 25.81 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 1 | 25.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 1 | 25.81 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 1 | 25.81 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 1 | 25.81 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 1 | 25.81 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 1 | 25.81 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 1 | 25.81 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 7 | 25.71 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 7 | 25.71 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 7 | 25.71 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 7 | 25.71 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 7 | 25.71 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 7 | 25.71 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 14 | 25.67 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 14 | 25.67 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 25.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 25.63 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 25.63 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 8 | 25.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 8 | 25.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 8 | 25.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 8 | 25.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 8 | 25.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 8 | 25.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 8 | 25.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 8 | 25.57 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 3 | 25.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 3 | 25.53 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 25.47 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 25.47 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 13 | 25.47 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 13 | 25.47 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 13 | 25.47 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 13 | 25.47 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 13 | 25.47 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 13 | 25.47 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 1 | 25.45 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 1 | 25.45 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 1 | 25.45 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 1 | 25.45 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 1 | 25.45 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 1 | 25.45 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 1 | 25.41 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 1 | 25.41 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 1 | 25.41 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 1 | 25.41 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 1 | 25.41 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 1 | 25.41 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 1 | 25.41 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 1 | 25.41 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 1 | 25.41 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 5 | 25.39 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 5 | 25.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 5 | 25.39 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 5 | 25.39 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 5 | 25.39 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 5 | 25.39 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 8 | 25.34 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 25.32 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 25.32 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 13 | 25.3 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 13 | 25.3 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 13 | 25.3 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 13 | 25.3 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 13 | 25.3 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 13 | 25.3 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 13 | 25.3 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 13 | 25.3 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 13 | 25.3 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 2 | 25.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 2 | 25.3 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 4 | 25.27 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 4 | 25.27 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 25.25 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 25.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 25.25 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.25 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.25 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.25 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.25 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 15 | 25.25 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 15 | 25.25 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 12 | 25.24 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 12 | 25.24 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 12 | 25.24 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 12 | 25.24 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 12 | 25.24 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 12 | 25.24 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 12 | 25.23 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 12 | 25.23 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 12 | 25.23 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 12 | 25.23 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 12 | 25.23 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 12 | 25.23 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 12 | 25.23 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 12 | 25.23 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 11 | 25.2 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 9 | 25.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 9 | 25.16 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 25.15 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 25.15 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 6 | 25.12 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 6 | 25.12 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 6 | 25.12 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 6 | 25.12 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 6 | 25.12 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 6 | 25.12 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 25.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 25.11 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 25.11 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 2 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 2 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 2 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 2 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 2 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 2 | 25.05 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 2 | 25.05 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 2 | 25.05 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 7 | 25.05 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 7 | 25.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 7 | 25.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 7 | 25.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 7 | 25.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 7 | 25.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 7 | 25.04 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 7 | 25.04 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 7 | 25.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 7 | 25.04 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 7 | 25.04 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 7 | 25.04 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 7 | 25.04 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 7 | 25.04 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 12 | 25.03 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 3 | 25.0 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 3 | 25.0 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 3 | 25.0 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 3 | 25.0 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 3 | 25.0 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 3 | 25.0 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 3 | 25.0 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 3 | 25.0 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 4 | 24.98 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 4 | 24.98 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 4 | 24.98 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 4 | 24.98 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 4 | 24.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 4 | 24.98 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 1 | 24.97 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 1 | 24.97 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 14 | 24.97 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 14 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 1 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 1 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 14 | 24.97 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 14 | 24.97 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 1 | 24.97 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 1 | 24.97 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 14 | 24.97 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 14 | 24.97 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 6 | 24.93 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 6 | 24.93 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 6 | 24.93 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 6 | 24.93 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 6 | 24.93 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 6 | 24.93 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 9 | 24.93 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 10 | 24.9 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 10 | 24.9 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 10 | 24.9 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 10 | 24.9 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 10 | 24.9 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 10 | 24.9 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 2 | 24.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 2 | 24.88 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 2 | 24.88 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 11 | 24.88 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 11 | 24.88 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 11 | 24.88 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 11 | 24.88 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 11 | 24.88 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 11 | 24.88 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 4 | 24.86 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 4 | 24.86 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 4 | 24.86 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 4 | 24.86 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 4 | 24.86 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 4 | 24.86 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 13 | 24.84 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 13 | 24.84 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 5 | 24.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 5 | 24.82 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 2 | 24.78 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 2 | 24.78 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 2 | 24.78 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 2 | 24.78 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 2 | 24.78 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 2 | 24.78 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 6 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 6 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 6 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 6 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 6 | 24.77 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 6 | 24.77 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 6 | 24.77 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 6 | 24.77 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 24.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 24.76 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 24.76 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 12 | 24.76 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 13 | 24.74 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 13 | 24.74 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 13 | 24.74 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 13 | 24.74 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 13 | 24.74 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 13 | 24.74 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 13 | 24.74 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 13 | 24.74 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 6 | 24.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 6 | 24.73 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 11 | 24.71 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 11 | 24.71 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 11 | 24.71 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 11 | 24.71 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 11 | 24.71 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 11 | 24.71 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 3 | 24.7 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 3 | 24.7 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 24.69 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 24.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 24.69 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 9 | 24.68 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 9 | 24.68 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 10 | 24.68 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 10 | 24.68 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 10 | 24.68 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 10 | 24.68 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 10 | 24.68 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 10 | 24.68 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 10 | 24.68 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 10 | 24.68 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 10 | 24.68 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 10 | 24.68 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 10 | 24.68 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 10 | 24.68 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 10 | 24.68 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 10 | 24.68 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 10 | 24.68 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 8 | 24.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 8 | 24.67 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 8 | 24.67 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.64 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 15 | 24.64 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 15 | 24.64 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 9 | 24.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 9 | 24.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 9 | 24.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 9 | 24.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 9 | 24.57 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 9 | 24.57 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 9 | 24.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 9 | 24.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 9 | 24.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 9 | 24.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 9 | 24.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 9 | 24.57 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 9 | 24.57 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 9 | 24.48 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 9 | 24.48 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 9 | 24.48 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 9 | 24.48 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 9 | 24.48 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 9 | 24.48 |
| (1,99) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,99) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,99) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,98) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,98) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,98) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,97) | 1:C:781:ILE:HD11 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,97) | 1:C:781:ILE:HD12 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,97) | 1:C:781:ILE:HD13 | 1:C:743:ASP:HA | 6 | 24.45 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 11 | 24.43 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 11 | 24.43 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 11 | 24.43 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 11 | 24.43 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 11 | 24.43 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 11 | 24.43 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 11 | 24.43 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 11 | 24.43 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 15 | 24.43 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 14 | 24.39 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 13 | 24.37 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 2 | 24.33 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 2 | 24.33 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 2 | 24.33 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 2 | 24.33 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 2 | 24.33 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 2 | 24.33 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 2 | 24.33 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 2 | 24.33 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 2 | 24.33 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 7 | 24.32 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 7 | 24.32 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 7 | 24.32 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 7 | 24.32 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 7 | 24.32 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 7 | 24.32 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,93) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,93) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 24.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,93) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,92) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 24.25 |
| (1,91) | 1:C:777:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 24.25 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 8 | 24.2 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 8 | 24.2 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 8 | 24.2 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 8 | 24.2 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 8 | 24.2 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 8 | 24.2 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 12 | 24.19 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 12 | 24.19 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 12 | 24.19 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 12 | 24.19 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 12 | 24.19 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 12 | 24.19 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 4 | 24.17 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 4 | 24.17 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 4 | 24.17 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 4 | 24.17 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 4 | 24.17 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 4 | 24.17 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 4 | 24.17 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 4 | 24.17 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 4 | 24.17 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 4 | 24.17 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 4 | 24.17 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 4 | 24.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 4 | 24.17 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 3 | 24.15 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 3 | 24.15 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 9 | 24.15 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 9 | 24.15 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 3 | 24.15 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 3 | 24.15 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 9 | 24.15 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 9 | 24.15 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 3 | 24.15 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 3 | 24.15 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 9 | 24.15 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 9 | 24.15 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 5 | 24.14 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 5 | 24.14 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 5 | 24.14 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 5 | 24.14 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 5 | 24.14 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 5 | 24.14 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.12 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.12 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.12 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.12 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 15 | 24.12 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 15 | 24.12 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 4 | 24.1 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 8 | 24.04 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 8 | 24.04 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 8 | 24.04 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 8 | 24.04 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 8 | 24.04 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 8 | 24.04 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 8 | 24.04 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 8 | 24.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 8 | 24.04 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 5 | 23.99 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 5 | 23.99 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 5 | 23.99 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 5 | 23.99 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 5 | 23.99 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 5 | 23.99 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 5 | 23.99 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 5 | 23.99 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 3 | 23.98 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 3 | 23.98 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 3 | 23.98 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 3 | 23.98 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 3 | 23.98 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 3 | 23.98 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 13 | 23.89 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 13 | 23.89 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 13 | 23.89 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 13 | 23.89 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 13 | 23.89 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 13 | 23.89 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 7 | 23.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 7 | 23.88 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 7 | 23.88 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 11 | 23.75 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 11 | 23.75 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 11 | 23.75 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 11 | 23.75 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 11 | 23.75 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 11 | 23.75 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 11 | 23.75 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 11 | 23.75 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 11 | 23.75 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 2 | 23.66 |
| (1,90) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 2 | 23.66 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 2 | 23.66 |
| (1,89) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 2 | 23.66 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD2 | 2 | 23.66 |
| (1,88) | 1:C:763:LEU:H | 1:C:742:ARG:HD3 | 2 | 23.66 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 14 | 23.65 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 14 | 23.65 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 14 | 23.65 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 14 | 23.65 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 14 | 23.65 |
| (1,141) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 14 | 23.65 |
| (1,140) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD11 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD12 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD13 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD21 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD22 | 14 | 23.65 |
| (1,139) | 1:C:792:ALA:H | 1:C:753:LEU:HD23 | 14 | 23.65 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 3 | 23.64 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 3 | 23.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 3 | 23.64 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 3 | 23.64 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 3 | 23.64 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 3 | 23.64 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 3 | 23.64 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 3 | 23.64 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 3 | 23.64 |
| (1,111) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,111) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,111) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,110) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,110) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,110) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,109) | 1:C:785:LEU:HD21 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,109) | 1:C:785:LEU:HD22 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,109) | 1:C:785:LEU:HD23 | 1:C:749:VAL:HB | 1 | 23.61 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 3 | 23.59 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 3 | 23.59 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 14 | 23.29 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 14 | 23.29 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 14 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 14 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 14 | 23.29 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 14 | 23.29 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 14 | 23.29 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 14 | 23.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 14 | 23.29 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 6 | 23.24 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 6 | 23.24 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 6 | 23.24 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 6 | 23.24 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 6 | 23.24 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 6 | 23.24 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 6 | 23.24 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 6 | 23.24 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 6 | 23.24 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 12 | 23.22 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 12 | 23.22 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 12 | 23.22 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 12 | 23.22 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 12 | 23.22 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 12 | 23.22 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 12 | 23.22 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 12 | 23.22 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 12 | 23.22 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 15 | 23.19 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 15 | 23.19 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 4 | 23.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 4 | 23.04 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 4 | 23.04 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 14 | 22.98 |
| (1,78) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 14 | 22.98 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 14 | 22.98 |
| (1,77) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 14 | 22.98 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB2 | 14 | 22.98 |
| (1,76) | 1:C:754:ALA:H | 1:C:716:SER:HB3 | 14 | 22.98 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 10 | 22.86 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 10 | 22.86 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 22.82 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 22.82 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 22.82 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 22.82 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 22.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 22.82 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 15 | 22.82 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 15 | 22.82 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 15 | 22.82 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 13 | 22.64 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 13 | 22.64 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 5 | 22.63 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 5 | 22.63 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 5 | 22.63 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 5 | 22.63 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 5 | 22.63 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 5 | 22.63 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 5 | 22.63 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 5 | 22.63 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 5 | 22.63 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 9 | 22.51 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 9 | 22.51 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 9 | 22.51 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 9 | 22.51 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 9 | 22.51 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 9 | 22.51 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 9 | 22.51 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 9 | 22.51 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 9 | 22.51 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 7 | 22.32 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 7 | 22.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 7 | 22.32 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 7 | 22.32 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 7 | 22.32 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 7 | 22.32 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 7 | 22.32 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 7 | 22.32 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 7 | 22.32 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 2 | 22.23 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 2 | 22.23 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 14 | 22.22 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 14 | 22.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 14 | 22.22 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 5 | 22.19 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 5 | 22.19 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 11 | 22.15 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 11 | 22.15 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 4 | 22.08 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 4 | 22.08 |
| (1,150) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 4 | 22.08 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 4 | 22.08 |
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 4 | 22.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,149) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 4 | 22.08 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD21 | 4 | 22.08 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD22 | 4 | 22.08 |
| (1,148) | 1:C:796:TRP:HE1 | 1:C:755:LEU:HD23 | 4 | 22.08 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 8 | 21.6 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 8 | 21.6 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 6 | 21.5 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 6 | 21.5 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 1 | 21.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 1 | 21.49 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 1 | 21.49 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 5 | 21.42 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 5 | 21.42 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 4 | 21.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 4 | 21.3 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 4 | 21.3 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 7 | 21.21 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 7 | 21.21 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 7 | 21.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 7 | 21.11 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 7 | 21.11 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 13 | 21.1 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 13 | 21.1 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 8 | 21.07 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 8 | 21.07 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 5 | 21.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 5 | 21.02 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 5 | 21.02 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 10 | 21.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 10 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 10 | 21.0 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 11 | 21.0 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 11 | 21.0 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 2 | 20.98 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 2 | 20.98 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 15 | 20.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 15 | 20.89 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 15 | 20.89 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 9 | 20.79 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 9 | 20.79 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 6 | 20.75 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 6 | 20.75 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 20.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 15 | 20.73 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 15 | 20.73 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 3 | 20.72 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 3 | 20.72 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 1 | 20.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 1 | 20.67 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 1 | 20.67 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 12 | 20.64 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 12 | 20.64 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 10 | 20.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 10 | 20.63 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 10 | 20.63 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 9 | 20.52 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 9 | 20.52 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 4 | 20.48 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 4 | 20.48 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,102) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 12 | 20.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,102) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,102) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,101) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD11 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD12 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG12 | 12 | 20.31 |
| (1,100) | 1:C:781:ILE:HD13 | 1:C:746:ILE:HG13 | 12 | 20.31 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,105) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,105) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,105) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,104) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD21 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD22 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB2 | 14 | 20.07 |
| (1,103) | 1:C:785:LEU:HD23 | 1:C:716:SER:HB3 | 14 | 20.07 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 9 | 20.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 9 | 20.0 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 9 | 20.0 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 7 | 19.98 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 7 | 19.98 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 7 | 19.98 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 7 | 19.98 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 7 | 19.98 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 7 | 19.98 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 7 | 19.98 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 7 | 19.98 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 7 | 19.98 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 9 | 19.79 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 9 | 19.79 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 9 | 19.79 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 9 | 19.79 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 9 | 19.79 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 9 | 19.79 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 9 | 19.79 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 9 | 19.79 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 9 | 19.79 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 12 | 19.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 12 | 19.68 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 12 | 19.68 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 14 | 19.65 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 14 | 19.65 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 11 | 19.6 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 11 | 19.6 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 12 | 19.48 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 12 | 19.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 12 | 19.48 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 12 | 19.48 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 12 | 19.48 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 12 | 19.48 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 12 | 19.48 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 12 | 19.48 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 12 | 19.48 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 6 | 19.47 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 6 | 19.47 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 19.38 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 19.38 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 19.38 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 19.38 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 19.38 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 19.38 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 15 | 19.38 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 15 | 19.38 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 15 | 19.38 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 4 | 19.23 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 4 | 19.23 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 4 | 19.23 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 4 | 19.23 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 4 | 19.23 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 4 | 19.23 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 4 | 19.23 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 4 | 19.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 4 | 19.23 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 3 | 19.17 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 3 | 19.17 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 1 | 19.09 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 1 | 19.09 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 13 | 19.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 13 | 19.02 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 13 | 19.02 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 1 | 19.01 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 1 | 19.01 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 1 | 19.01 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 1 | 19.01 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 1 | 19.01 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 1 | 19.01 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 1 | 19.01 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 1 | 19.01 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 1 | 19.01 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 3 | 18.63 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 3 | 18.63 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 3 | 18.63 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 3 | 18.63 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 3 | 18.63 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 3 | 18.63 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 3 | 18.63 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 3 | 18.63 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 3 | 18.63 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 5 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 5 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 5 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 5 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 5 | 18.58 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 5 | 18.58 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 5 | 18.58 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 5 | 18.58 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 5 | 18.58 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 13 | 18.49 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 13 | 18.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 13 | 18.49 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 14 | 18.49 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 14 | 18.49 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 14 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 13 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 13 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 13 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 14 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 14 | 18.49 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 14 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 13 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 13 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 13 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 14 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 14 | 18.49 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 14 | 18.49 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,108) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,108) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,108) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,107) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD21 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD22 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD2 | 2 | 18.39 |
| (1,106) | 1:C:785:LEU:HD23 | 1:C:747:ARG:HD3 | 2 | 18.39 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 2 | 18.04 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 2 | 18.04 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 2 | 18.04 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 2 | 18.04 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 2 | 18.04 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 2 | 18.04 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 2 | 18.04 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 2 | 18.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 2 | 18.04 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 11 | 17.72 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 11 | 17.72 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 11 | 17.72 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 11 | 17.72 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 11 | 17.72 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 11 | 17.72 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 11 | 17.72 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 11 | 17.72 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 11 | 17.72 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 10 | 17.44 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 10 | 17.44 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 10 | 17.44 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 10 | 17.44 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 10 | 17.44 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 10 | 17.44 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 10 | 17.44 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 10 | 17.44 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 10 | 17.44 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 6 | 17.43 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 6 | 17.43 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 6 | 17.43 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 6 | 17.43 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 6 | 17.43 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 6 | 17.43 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 6 | 17.43 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 6 | 17.43 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 6 | 17.43 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 8 | 17.03 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 8 | 17.03 |
| (1,84) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 8 | 17.03 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 8 | 17.03 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 8 | 17.03 |
| (1,83) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 8 | 17.03 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD21 | 8 | 17.03 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD22 | 8 | 17.03 |
| (1,82) | 1:C:758:ASP:H | 1:C:715:LEU:HD23 | 8 | 17.03 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 1 | 16.59 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 1 | 16.59 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 1 | 16.59 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 1 | 16.59 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 1 | 16.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 1 | 16.59 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 10 | 16.52 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 10 | 16.52 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 10 | 16.52 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 10 | 16.52 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 10 | 16.52 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 10 | 16.52 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 8 | 16.49 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 8 | 16.49 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 8 | 16.49 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 8 | 16.49 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 8 | 16.49 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 8 | 16.49 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 7 | 16.46 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 7 | 16.46 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 7 | 16.46 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 7 | 16.46 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 7 | 16.46 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 7 | 16.46 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 12 | 16.4 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 12 | 16.4 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 12 | 16.4 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 12 | 16.4 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 12 | 16.4 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 12 | 16.4 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 13 | 16.37 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 13 | 16.37 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 13 | 16.37 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 13 | 16.37 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 13 | 16.37 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 13 | 16.37 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 9 | 16.31 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 9 | 16.31 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 9 | 16.31 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 9 | 16.31 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 9 | 16.31 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 9 | 16.31 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 14 | 15.89 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 14 | 15.89 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 14 | 15.89 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 14 | 15.89 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 14 | 15.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 14 | 15.89 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 4 | 15.78 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 4 | 15.78 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 4 | 15.78 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 4 | 15.78 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 4 | 15.78 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 4 | 15.78 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 5 | 15.74 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 5 | 15.74 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 5 | 15.74 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 5 | 15.74 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 5 | 15.74 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 5 | 15.74 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 6 | 15.47 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 6 | 15.47 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 6 | 15.47 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 6 | 15.47 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 6 | 15.47 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 6 | 15.47 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 3 | 15.28 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 3 | 15.28 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 3 | 15.28 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 3 | 15.28 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 3 | 15.28 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 3 | 15.28 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 11 | 15.19 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 11 | 15.19 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 11 | 15.19 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 11 | 15.19 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 11 | 15.19 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 11 | 15.19 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.01 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.01 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.01 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.01 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 15 | 15.01 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 15 | 15.01 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 2 | 14.58 |
| (1,87) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 2 | 14.58 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 2 | 14.58 |
| (1,86) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 2 | 14.58 |
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD2 | 2 | 14.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,85) | 1:C:759:ASP:H | 1:C:709:ARG:HD3 | 2 | 14.58 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 1 | 14.38 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 1 | 14.38 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 1 | 14.38 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 1 | 14.38 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 1 | 14.38 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 1 | 14.38 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 13 | 14.21 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 13 | 14.21 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 13 | 14.21 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 13 | 14.21 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 13 | 14.21 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 13 | 14.21 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 8 | 14.01 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 8 | 14.01 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 8 | 14.01 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 8 | 14.01 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 8 | 14.01 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 8 | 14.01 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 7 | 13.99 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 7 | 13.99 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 7 | 13.99 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 7 | 13.99 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 7 | 13.99 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 7 | 13.99 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 5 | 13.68 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 5 | 13.68 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 5 | 13.68 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 5 | 13.68 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 5 | 13.68 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 5 | 13.68 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 12 | 13.58 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 12 | 13.58 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 12 | 13.58 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 12 | 13.58 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 12 | 13.58 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 12 | 13.58 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 9 | 13.57 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 9 | 13.57 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 9 | 13.57 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 9 | 13.57 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 9 | 13.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 9 | 13.57 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 4 | 13.48 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 4 | 13.48 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 4 | 13.48 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 4 | 13.48 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 4 | 13.48 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 4 | 13.48 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 3 | 13.28 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 3 | 13.28 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 3 | 13.28 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 3 | 13.28 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 3 | 13.28 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 3 | 13.28 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 6 | 13.26 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 6 | 13.26 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 6 | 13.26 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 6 | 13.26 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 6 | 13.26 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 6 | 13.26 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 13 | 13.25 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 13 | 13.25 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 11 | 13.13 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 11 | 13.13 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 11 | 13.13 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 11 | 13.13 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 11 | 13.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 11 | 13.13 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.09 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.09 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.09 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.09 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 15 | 13.09 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 15 | 13.09 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 10 | 13.04 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 10 | 13.04 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 10 | 13.04 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 10 | 13.04 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 10 | 13.04 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 10 | 13.04 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 2 | 12.9 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 2 | 12.9 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 2 | 12.9 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 2 | 12.9 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 2 | 12.9 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 2 | 12.9 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 1 | 12.34 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 1 | 12.34 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 14 | 12.28 |
| (1,72) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 14 | 12.28 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 14 | 12.28 |
| (1,71) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 14 | 12.28 |
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB2 | 14 | 12.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,70) | 1:C:711:GLY:H | 1:C:758:ASP:HB3 | 14 | 12.28 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 14 | 11.99 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 14 | 11.99 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 2 | 11.68 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 2 | 11.68 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 8 | 11.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 8 | 11.46 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 9 | 11.46 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 9 | 11.46 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 11 | 11.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 11 | 11.4 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 11 | 11.4 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 7 | 11.3 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 7 | 11.3 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 4 | 11.29 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 4 | 11.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 4 | 11.29 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 5 | 10.81 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 5 | 10.81 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 12 | 10.76 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 12 | 10.76 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 6 | 10.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 6 | 10.65 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 6 | 10.65 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 10 | 10.53 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 10 | 10.53 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 3 | 10.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 3 | 10.45 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 3 | 10.45 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,81) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,81) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,81) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,80) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD11 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD12 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE21 | 15 | 10.27 |
| (1,79) | 1:C:755:LEU:HD13 | 1:C:710:GLN:HE22 | 15 | 10.27 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 11 | 8.76 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 12 | 8.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 12 | 8.7 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 3 | 8.53 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 15 | 8.51 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 11 | 8.31 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 11 | 8.31 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 11 | 8.31 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 11 | 8.31 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 11 | 8.31 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 11 | 8.31 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 6 | 8.01 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 10 | 8.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 10 | 8.0 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 10 | 7.87 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 10 | 7.87 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 10 | 7.87 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 10 | 7.87 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 10 | 7.87 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 10 | 7.87 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 3 | 7.8 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 3 | 7.8 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 3 | 7.8 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 3 | 7.8 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 3 | 7.8 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 3 | 7.8 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 12 | 7.72 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 12 | 7.72 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 12 | 7.72 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 12 | 7.72 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 12 | 7.72 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 12 | 7.72 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 4 | 7.72 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 9 | 7.71 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 14 | 7.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 14 | 7.66 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 2 | 7.61 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 2 | 7.61 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 2 | 7.61 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 2 | 7.61 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 2 | 7.61 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 2 | 7.61 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.6 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.6 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.6 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.6 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 15 | 7.6 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 15 | 7.6 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 2 | 7.57 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 4 | 7.41 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 4 | 7.41 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 4 | 7.41 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 4 | 7.41 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 4 | 7.41 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 4 | 7.41 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 6 | 7.37 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 6 | 7.37 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 6 | 7.37 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 6 | 7.37 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 6 | 7.37 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 6 | 7.37 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 5 | 7.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 5 | 7.32 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 9 | 7.27 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 9 | 7.27 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 9 | 7.27 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 9 | 7.27 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 9 | 7.27 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 9 | 7.27 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 1 | 7.08 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 1 | 7.08 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 1 | 7.08 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 1 | 7.08 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 1 | 7.08 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 1 | 7.08 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 11 | 7.07 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 11 | 7.07 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 14 | 7.06 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 14 | 7.06 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 14 | 7.06 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 14 | 7.06 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 14 | 7.06 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 14 | 7.06 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 1 | 7.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 1 | 7.06 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 5 | 7.04 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 5 | 7.04 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 5 | 7.04 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 5 | 7.04 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 5 | 7.04 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 5 | 7.04 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 3 | 6.98 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 3 | 6.98 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 8 | 6.8 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 13 | 6.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 13 | 6.65 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 12 | 6.62 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 12 | 6.62 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 14 | 6.59 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 14 | 6.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 14 | 6.59 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 7 | 6.49 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 7 | 6.49 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 7 | 6.49 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 7 | 6.49 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 7 | 6.49 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 7 | 6.49 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 15 | 6.43 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 15 | 6.43 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 10 | 6.41 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 10 | 6.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 10 | 6.41 |
| (1,66) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,66) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,66) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,65) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,65) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,65) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,64) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,64) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,64) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HA | 7 | 6.38 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 13 | 6.33 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 13 | 6.33 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 13 | 6.33 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 13 | 6.33 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 13 | 6.33 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 13 | 6.33 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 8 | 6.22 |
| (1,69) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 8 | 6.22 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 8 | 6.22 |
| (1,68) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 8 | 6.22 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD2 | 8 | 6.22 |
| (1,67) | 1:C:709:ARG:H | 1:C:714:PRO:HD3 | 8 | 6.22 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 2 | 6.21 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 2 | 6.21 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 8 | 6.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 8 | 6.19 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 8 | 6.19 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 5 | 6.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 5 | 6.15 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 5 | 6.15 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 9 | 6.15 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 9 | 6.15 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 6 | 5.94 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 6 | 5.94 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 4 | 5.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 4 | 5.91 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 4 | 5.91 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 1 | 5.87 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 1 | 5.87 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 13 | 5.51 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 13 | 5.51 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,63) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 7 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,63) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,63) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,62) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG21 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG22 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD2 | 7 | 5.32 |
| (1,61) | 1:C:708:VAL:HG23 | 1:C:714:PRO:HD3 | 7 | 5.32 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 2 | 4.53 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 2 | 4.53 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 10 | 4.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 10 | 4.46 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 10 | 4.46 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 8 | 4.42 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 8 | 4.42 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 8 | 4.42 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 8 | 4.42 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 8 | 4.42 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 8 | 4.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 8 | 4.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 8 | 4.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 8 | 4.42 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 14 | 4.01 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 14 | 4.01 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 13 | 3.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 13 | 3.99 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 13 | 3.99 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 3 | 3.94 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 3 | 3.94 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 3 | 3.94 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 3 | 3.94 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 3 | 3.94 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 3 | 3.94 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 3 | 3.94 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 3 | 3.94 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 3 | 3.94 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 11 | 3.91 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 11 | 3.91 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 11 | 3.91 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 11 | 3.91 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 11 | 3.91 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 11 | 3.91 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 11 | 3.91 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 11 | 3.91 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 11 | 3.91 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 9 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 9 | 3.76 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 9 | 3.76 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 1 | 3.66 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 8 | 3.66 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 8 | 3.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 8 | 3.66 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 1 | 3.58 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 1 | 3.58 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 1 | 3.58 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 1 | 3.58 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 1 | 3.58 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 1 | 3.58 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 1 | 3.58 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 1 | 3.58 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 1 | 3.58 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 3 | 3.51 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 3 | 3.51 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.48 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.48 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.48 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.48 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.48 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.48 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 15 | 3.48 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 15 | 3.48 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 15 | 3.48 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 14 | 3.42 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 14 | 3.42 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 14 | 3.42 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 14 | 3.42 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 14 | 3.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 14 | 3.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 14 | 3.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 14 | 3.42 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 14 | 3.42 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 12 | 3.2 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 12 | 3.2 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 12 | 3.2 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 12 | 3.2 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 12 | 3.2 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 12 | 3.2 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 12 | 3.2 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 12 | 3.2 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 12 | 3.2 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 2 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 2 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 2 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 2 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 2 | 3.1 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 2 | 3.1 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 2 | 3.1 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 2 | 3.1 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 2 | 3.1 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 4 | 3.08 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 4 | 3.08 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 4 | 3.08 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 4 | 3.08 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 4 | 3.08 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 4 | 3.08 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 4 | 3.08 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 4 | 3.08 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 4 | 3.08 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 4 | 3.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 4 | 3.05 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 4 | 3.05 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 10 | 3.03 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 10 | 3.03 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 10 | 3.03 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 10 | 3.03 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 10 | 3.03 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 10 | 3.03 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 10 | 3.03 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 10 | 3.03 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 10 | 3.03 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 5 | 3.02 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 5 | 3.02 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 5 | 3.02 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 5 | 3.02 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 5 | 3.02 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 5 | 3.02 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 5 | 3.02 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 5 | 3.02 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 5 | 3.02 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 3.01 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 3.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 3.01 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 9 | 2.95 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 9 | 2.95 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 9 | 2.95 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 9 | 2.95 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 9 | 2.95 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 9 | 2.95 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 9 | 2.95 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 9 | 2.95 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 9 | 2.95 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 7 | 2.92 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 7 | 2.92 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 12 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 12 | 2.86 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 12 | 2.86 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 11 | 2.75 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 11 | 2.75 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 6 | 2.64 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 6 | 2.64 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 6 | 2.64 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 6 | 2.64 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 6 | 2.64 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 6 | 2.64 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 3 | 2.54 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 3 | 2.54 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 3 | 2.54 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 3 | 2.54 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 3 | 2.54 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 3 | 2.54 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 6 | 2.53 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 6 | 2.53 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 6 | 2.53 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 6 | 2.53 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 6 | 2.53 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 6 | 2.53 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 6 | 2.53 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 6 | 2.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 6 | 2.53 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 9 | 2.53 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 9 | 2.53 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 8 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 8 | 2.52 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 8 | 2.52 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 14 | 2.52 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 14 | 2.52 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 2 | 2.5 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 2 | 2.5 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 2 | 2.5 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 2 | 2.5 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 2 | 2.5 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 2 | 2.5 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 5 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 12 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 5 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 11 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 12 | 2.48 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 12 | 2.48 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 15 | 2.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 15 | 2.47 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 7 | 2.46 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 7 | 2.46 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 12 | 2.45 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 8 | 2.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 8 | 2.44 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 8 | 2.44 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 8 | 2.44 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 8 | 2.44 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 8 | 2.44 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 8 | 2.44 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 8 | 2.44 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 8 | 2.44 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 1 | 2.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 1 | 2.43 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 1 | 2.43 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 15 | 2.42 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 15 | 2.42 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 13 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 13 | 2.41 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 13 | 2.41 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 3 | 2.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 3 | 2.39 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 3 | 2.39 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 4 | 2.38 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 4 | 2.38 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 13 | 2.37 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 13 | 2.37 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 13 | 2.37 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 13 | 2.37 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 13 | 2.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 13 | 2.37 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 13 | 2.37 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 13 | 2.37 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 13 | 2.37 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 6 | 2.36 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 6 | 2.36 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 10 | 2.33 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 10 | 2.33 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 10 | 2.33 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 10 | 2.33 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 10 | 2.33 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 10 | 2.33 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 10 | 2.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 10 | 2.31 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 10 | 2.31 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 7 | 2.3 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 7 | 2.3 |
| (1,75) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 7 | 2.3 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 7 | 2.3 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 7 | 2.3 |
| (1,74) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 7 | 2.3 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG21 | 7 | 2.3 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG22 | 7 | 2.3 |
| (1,73) | 1:C:713:SER:H | 1:C:708:VAL:HG23 | 7 | 2.3 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 15 | 2.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 15 | 2.23 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 15 | 2.23 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,51) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,50) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD21 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD22 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB1 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB2 | 2 | 2.2 |
| (1,49) | 1:C:702:LEU:HD23 | 1:C:700:ALA:HB3 | 2 | 2.2 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 9 | 2.16 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 9 | 2.16 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 9 | 2.16 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 9 | 2.16 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 9 | 2.16 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 9 | 2.16 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 11 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 11 | 2.16 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 11 | 2.15 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 11 | 2.15 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 6 | 2.14 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 5 | 2.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 5 | 2.11 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 6 | 2.09 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 6 | 2.09 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 6 | 2.09 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 5 | 2.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 5 | 2.09 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 5 | 2.09 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 12 | 2.08 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 12 | 2.08 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 12 | 2.08 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 12 | 2.08 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 12 | 2.08 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 12 | 2.08 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 15 | 2.06 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 15 | 2.06 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 5 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 5 | 2.05 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 5 | 2.05 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 4 | 2.03 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 4 | 2.03 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 4 | 2.03 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 4 | 2.03 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 4 | 2.03 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 4 | 2.03 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 9 | 2.03 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,33) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,33) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,33) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,32) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,31) | 1:C:693:ILE:HD11 | 1:C:696:ARG:HH22 | 6 | 2.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,31) | 1:C:693:ILE:HD12 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH21 | 6 | 2.02 |
| (1,31) | 1:C:693:ILE:HD13 | 1:C:696:ARG:HH22 | 6 | 2.02 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 14 | 2.01 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 14 | 2.01 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 5 | 2.01 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 5 | 2.01 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 5 | 2.01 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 5 | 2.01 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 5 | 2.01 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 5 | 2.01 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 6 | 2.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 6 | 2.01 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 6 | 2.01 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 9 | 1.99 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 9 | 1.99 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 7 | 1.99 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 7 | 1.99 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 7 | 1.99 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 7 | 1.99 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 7 | 1.99 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 7 | 1.99 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.97 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.97 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.97 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.97 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.97 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.97 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 15 | 1.97 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 15 | 1.97 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 15 | 1.97 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 4 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 4 | 1.96 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 15 | 1.96 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 15 | 1.96 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 12 | 1.95 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 12 | 1.95 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 12 | 1.95 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 12 | 1.95 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 12 | 1.95 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 12 | 1.95 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 12 | 1.95 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 12 | 1.95 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 12 | 1.95 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 7 | 1.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 7 | 1.94 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 14 | 1.94 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 15 | 1.91 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 15 | 1.91 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 1.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 2 | 1.91 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 2 | 1.91 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 5 | 1.9 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 12 | 1.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 12 | 1.9 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 12 | 1.9 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 14 | 1.88 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 14 | 1.88 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 1.88 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 1.88 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 1.88 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 1.88 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 15 | 1.88 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 15 | 1.88 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 13 | 1.87 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 1 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 1 | 1.85 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 12 | 1.83 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 12 | 1.83 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 13 | 1.78 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 13 | 1.78 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 13 | 1.78 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 13 | 1.78 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 13 | 1.78 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 13 | 1.78 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 3 | 1.74 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 4 | 1.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 4 | 1.73 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 3 | 1.68 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 3 | 1.68 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 9 | 1.68 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 9 | 1.68 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 11 | 1.66 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 11 | 1.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 11 | 1.66 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 11 | 1.66 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 11 | 1.66 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 11 | 1.66 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 11 | 1.66 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 11 | 1.66 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 11 | 1.66 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 3 | 1.65 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 3 | 1.65 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 6 | 1.64 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 6 | 1.64 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 6 | 1.64 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 6 | 1.64 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 6 | 1.64 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 6 | 1.64 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 6 | 1.64 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 6 | 1.64 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 6 | 1.64 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 4 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 4 | 1.64 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 4 | 1.64 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 1.63 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 1.63 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 12 | 1.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 12 | 1.63 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 12 | 1.63 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 5 | 1.61 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 5 | 1.61 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 5 | 1.61 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 5 | 1.61 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 5 | 1.61 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 5 | 1.61 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 5 | 1.61 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 5 | 1.61 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 5 | 1.61 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 11 | 1.59 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 11 | 1.59 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 11 | 1.59 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 11 | 1.59 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 11 | 1.59 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 11 | 1.59 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 11 | 1.57 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 11 | 1.57 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 1 | 1.54 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 1 | 1.54 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 1 | 1.54 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 1 | 1.54 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 1 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 1 | 1.54 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 9 | 1.53 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 9 | 1.53 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 9 | 1.53 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 9 | 1.53 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 9 | 1.53 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 9 | 1.53 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 9 | 1.53 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 9 | 1.53 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 9 | 1.53 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 14 | 1.52 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 14 | 1.52 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 2 | 1.49 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 1 | 1.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 1 | 1.46 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 1 | 1.46 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 14 | 1.45 |
| (1,42) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 14 | 1.45 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 14 | 1.45 |
| (1,41) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 14 | 1.45 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA2 | 14 | 1.45 |
| (1,40) | 1:C:696:ARG:HE | 1:C:694:GLY:HA3 | 14 | 1.45 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 1.44 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 7 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 7 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 7 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 14 | 1.44 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 14 | 1.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 14 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 7 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 7 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 7 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 14 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 14 | 1.44 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 14 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 7 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 7 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 7 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 14 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 14 | 1.44 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 14 | 1.44 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 8 | 1.42 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 11 | 1.41 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 11 | 1.41 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 11 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 11 | 1.41 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 11 | 1.41 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 13 | 1.37 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 13 | 1.37 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 13 | 1.37 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 13 | 1.37 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 13 | 1.37 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 13 | 1.37 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 13 | 1.37 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 13 | 1.37 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 13 | 1.37 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 13 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 13 | 1.37 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 2 | 1.36 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 2 | 1.36 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 4 | 1.35 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 4 | 1.35 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 7 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 7 | 1.35 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 7 | 1.35 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 1 | 1.35 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 1 | 1.35 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 1 | 1.35 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 1 | 1.35 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 1 | 1.35 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 1 | 1.35 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 1 | 1.35 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 1 | 1.35 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 1 | 1.35 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 9 | 1.33 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 9 | 1.33 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 10 | 1.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 10 | 1.32 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 10 | 1.32 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 4 | 1.31 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 5 | 1.29 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 15 | 1.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 15 | 1.29 |
| (1,24) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,24) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,24) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,23) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,23) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,23) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,22) | 1:C:692:LEU:HD21 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,22) | 1:C:692:LEU:HD22 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,22) | 1:C:692:LEU:HD23 | 1:C:694:GLY:H | 10 | 1.27 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 6 | 1.26 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 11 | 1.26 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 14 | 1.26 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 9 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 7 | 1.25 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 9 | 1.25 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 3 | 1.24 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 3 | 1.24 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 3 | 1.24 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 3 | 1.24 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 3 | 1.24 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 3 | 1.24 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 3 | 1.24 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 3 | 1.24 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 3 | 1.24 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 7 | 1.24 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 7 | 1.24 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 12 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 12 | 1.23 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 1.23 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 10 | 1.23 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 10 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 10 | 1.23 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 4 | 1.23 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 4 | 1.23 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 4 | 1.23 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 4 | 1.23 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 4 | 1.23 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 4 | 1.23 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 4 | 1.23 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 4 | 1.23 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 4 | 1.23 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 8 | 1.21 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 1.21 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 1.21 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 3 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 3 | 1.2 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 1 | 1.15 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 10 | 1.13 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 8 | 1.13 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 8 | 1.13 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 13 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 13 | 1.12 |
| (1,9) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,9) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,9) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,8) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,8) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,8) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,7) | 1:C:682:ILE:HG21 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,7) | 1:C:682:ILE:HG22 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,7) | 1:C:682:ILE:HG23 | 1:C:684:ILE:HA | 2 | 1.09 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 7 | 1.09 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 7 | 1.09 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 7 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 7 | 1.08 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 7 | 1.08 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,54) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,54) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,54) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,53) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD21 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD22 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB2 | 8 | 1.06 |
| (1,52) | 1:C:704:LEU:HD23 | 1:C:706:ASN:HB3 | 8 | 1.06 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 5 | 1.02 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 5 | 1.02 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 5 | 1.02 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 3 | 1.01 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 6 | 1.01 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 14 | 1.01 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 14 | 1.01 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 3 | 1.01 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 6 | 1.01 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 3 | 1.01 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 6 | 1.01 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 2 | 0.99 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 2 | 0.99 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 2 | 0.99 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 2 | 0.99 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 2 | 0.99 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 2 | 0.99 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 2 | 0.99 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 2 | 0.99 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 2 | 0.99 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.98 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.98 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 15 | 0.98 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 2 | 0.96 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 4 | 0.96 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 2 | 0.96 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 4 | 0.96 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 13 | 0.96 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 13 | 0.96 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 13 | 0.96 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 13 | 0.96 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 13 | 0.96 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 13 | 0.96 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 2 | 0.96 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 4 | 0.96 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 2 | 0.95 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 2 | 0.95 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 2 | 0.95 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 2 | 0.95 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 2 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 2 | 0.95 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 3 | 0.94 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 3 | 0.94 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 3 | 0.94 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 3 | 0.94 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 3 | 0.94 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 3 | 0.94 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 3 | 0.94 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 3 | 0.94 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 3 | 0.94 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 6 | 0.93 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 6 | 0.93 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 6 | 0.93 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.93 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.93 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 6 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 6 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 6 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.93 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 6 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 6 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 6 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 15 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 15 | 0.93 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 15 | 0.93 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 11 | 0.92 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 11 | 0.92 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 8 | 0.92 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 8 | 0.92 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 8 | 0.92 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 8 | 0.92 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 8 | 0.92 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 8 | 0.92 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 8 | 0.92 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 8 | 0.92 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 8 | 0.92 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 11 | 0.92 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 1 | 0.91 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 1 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 1 | 0.91 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 1 | 0.91 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 1 | 0.91 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 1 | 0.91 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 11 | 0.9 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 11 | 0.9 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 11 | 0.9 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 8 | 0.89 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 8 | 0.89 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 8 | 0.89 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 13 | 0.89 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 13 | 0.89 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 13 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 8 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 8 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 8 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 13 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 13 | 0.89 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 13 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 8 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 8 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 8 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 13 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 13 | 0.89 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 13 | 0.89 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 7 | 0.87 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 1 | 0.87 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 6 | 0.87 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 7 | 0.87 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 1 | 0.87 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 6 | 0.87 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 7 | 0.87 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 7 | 0.87 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 7 | 0.87 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 7 | 0.87 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 7 | 0.87 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 7 | 0.87 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 7 | 0.87 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 1 | 0.87 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 6 | 0.87 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 1 | 0.86 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 8 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 8 | 0.86 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 8 | 0.86 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 1 | 0.86 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 1 | 0.86 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 10 | 0.85 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 14 | 0.85 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 10 | 0.85 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 14 | 0.85 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 10 | 0.85 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 14 | 0.85 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 9 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 11 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 11 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 11 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 12 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 12 | 0.84 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 12 | 0.84 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 9 | 0.84 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 11 | 0.84 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 11 | 0.84 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 12 | 0.84 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 12 | 0.84 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 12 | 0.84 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.84 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.84 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 10 | 0.84 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 10 | 0.84 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 10 | 0.84 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 10 | 0.84 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 10 | 0.84 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 10 | 0.84 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 9 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 11 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 11 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 11 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 12 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 12 | 0.84 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 12 | 0.84 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 14 | 0.83 |
| (1,27) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 14 | 0.83 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 14 | 0.83 |
| (1,26) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 14 | 0.83 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG12 | 14 | 0.83 |
| (1,25) | 1:C:693:ILE:H | 1:C:693:ILE:HG13 | 14 | 0.83 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 12 | 0.82 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 12 | 0.82 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 12 | 0.82 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 4 | 0.81 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 4 | 0.81 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 4 | 0.81 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 5 | 0.81 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 10 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 4 | 0.81 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 4 | 0.81 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 4 | 0.81 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 5 | 0.81 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 10 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 4 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 4 | 0.81 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 4 | 0.81 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 5 | 0.81 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 10 | 0.81 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 8 | 0.8 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.8 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 8 | 0.8 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.8 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 8 | 0.8 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 15 | 0.8 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 1 | 0.79 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 1 | 0.79 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 1 | 0.79 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 9 | 0.79 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 9 | 0.79 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 9 | 0.79 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 4 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 1 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 1 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 1 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 9 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 9 | 0.79 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 9 | 0.79 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 4 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 1 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 1 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 1 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 9 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 9 | 0.79 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 9 | 0.79 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 4 | 0.79 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 7 | 0.78 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 5 | 0.78 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 5 | 0.78 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 5 | 0.78 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 3 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 14 | 0.78 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 7 | 0.78 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 5 | 0.78 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 5 | 0.78 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 5 | 0.78 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 5 | 0.78 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 5 | 0.78 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 3 | 0.78 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 14 | 0.78 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 7 | 0.78 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 5 | 0.78 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 5 | 0.78 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 5 | 0.78 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 3 | 0.78 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 14 | 0.78 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 14 | 0.77 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 12 | 0.77 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 15 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 15 | 0.77 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 15 | 0.77 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 14 | 0.77 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 10 | 0.77 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 10 | 0.77 |
| (1,36) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 10 | 0.77 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 10 | 0.77 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 10 | 0.77 |
| (1,35) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 10 | 0.77 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 12 | 0.77 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD21 | 10 | 0.77 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD22 | 10 | 0.77 |
| (1,34) | 1:C:694:GLY:H | 1:C:692:LEU:HD23 | 10 | 0.77 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 14 | 0.77 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 12 | 0.77 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 2 | 0.76 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 8 | 0.76 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 9 | 0.76 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 2 | 0.76 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 8 | 0.76 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 9 | 0.76 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 2 | 0.76 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 8 | 0.76 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 9 | 0.76 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 2 | 0.76 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 14 | 0.75 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 14 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 14 | 0.75 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 2 | 0.75 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 3 | 0.75 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 3 | 0.75 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 14 | 0.75 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 14 | 0.75 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 14 | 0.75 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.75 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.75 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 2 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 14 | 0.75 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 14 | 0.75 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 14 | 0.75 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 2 | 0.75 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.74 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.74 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 3 | 0.74 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 3 | 0.74 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 12 | 0.73 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 12 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 12 | 0.73 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.72 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 2 | 0.72 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 2 | 0.72 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 2 | 0.72 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.72 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 2 | 0.72 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 2 | 0.72 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 2 | 0.72 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 13 | 0.72 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 2 | 0.72 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 2 | 0.72 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 2 | 0.72 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 10 | 0.71 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 10 | 0.71 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 10 | 0.71 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 10 | 0.71 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 10 | 0.71 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 10 | 0.71 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.71 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.71 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 10 | 0.71 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 10 | 0.71 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 10 | 0.71 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 7 | 0.7 |
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 7 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,860) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 7 | 0.7 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 7 | 0.7 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 7 | 0.7 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 7 | 0.7 |
| (1,519) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 7 | 0.7 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 7 | 0.7 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.7 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.7 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.7 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 6 | 0.7 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 6 | 0.7 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB1 | 7 | 0.7 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB2 | 7 | 0.7 |
| (1,1201) | 1:C:790:TRP:HE1 | 1:C:792:ALA:HB3 | 7 | 0.7 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 7 | 0.7 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.69 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.69 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 7 | 0.68 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 13 | 0.68 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 14 | 0.68 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 7 | 0.68 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 13 | 0.68 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 14 | 0.68 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.68 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.68 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 7 | 0.68 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 13 | 0.68 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 14 | 0.68 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 8 | 0.67 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 6 | 0.67 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 10 | 0.67 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 14 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 8 | 0.67 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 6 | 0.67 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 10 | 0.67 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 14 | 0.67 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 8 | 0.67 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 6 | 0.67 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 10 | 0.67 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.66 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 13 | 0.66 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,6) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,6) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,6) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.66 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,5) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,5) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,5) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.66 |
| (1,4) | 1:C:682:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.66 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 13 | 0.66 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 15 | 0.66 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 13 | 0.66 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 3 | 0.65 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 2 | 0.65 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 3 | 0.65 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 10 | 0.65 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 3 | 0.65 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 5 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 5 | 0.65 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 5 | 0.65 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 2 | 0.65 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 3 | 0.65 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.65 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.65 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.65 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.65 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.65 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.65 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 9 | 0.65 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 9 | 0.65 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 9 | 0.65 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 10 | 0.65 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 3 | 0.65 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 2 | 0.65 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 3 | 0.65 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 10 | 0.65 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 8 | 0.64 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 11 | 0.64 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 12 | 0.64 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 10 | 0.64 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 7 | 0.64 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 8 | 0.64 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 11 | 0.64 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 12 | 0.64 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 10 | 0.64 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 7 | 0.64 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 8 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 11 | 0.64 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 12 | 0.64 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 10 | 0.64 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 7 | 0.64 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 12 | 0.63 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 12 | 0.63 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 4 | 0.63 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 5 | 0.63 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 12 | 0.63 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 12 | 0.63 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 4 | 0.63 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 5 | 0.63 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 3 | 0.63 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 12 | 0.63 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 12 | 0.63 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 12 | 0.63 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 4 | 0.63 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 5 | 0.63 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 7 | 0.62 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 7 | 0.62 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 14 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 7 | 0.62 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 14 | 0.62 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 9 | 0.61 |
| (1,760) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 13 | 0.61 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 9 | 0.61 |
| (1,419) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 13 | 0.61 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 5 | 0.61 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 9 | 0.61 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 9 | 0.61 |
| (1,1101) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 13 | 0.61 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 3 | 0.61 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 11 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 13 | 0.6 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 2 | 0.6 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 2 | 0.6 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 13 | 0.6 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 4 | 0.6 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 9 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 9 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 11 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 11 | 0.6 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 11 | 0.6 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 13 | 0.6 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 9 | 0.59 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 6 | 0.59 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 9 | 0.59 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 6 | 0.59 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 9 | 0.59 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 12 | 0.59 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 5 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 5 | 0.59 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 5 | 0.59 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 6 | 0.59 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 10 | 0.58 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 12 | 0.58 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 5 | 0.58 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.58 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 10 | 0.58 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 12 | 0.58 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 2 | 0.58 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 2 | 0.58 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 2 | 0.58 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 2 | 0.58 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 2 | 0.58 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 2 | 0.58 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 2 | 0.58 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 2 | 0.58 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 2 | 0.58 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 5 | 0.58 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.58 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 14 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 10 | 0.58 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 5 | 0.58 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 8 | 0.58 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 8 | 0.58 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 8 | 0.58 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 8 | 0.58 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 8 | 0.58 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 8 | 0.58 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 12 | 0.58 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 5 | 0.58 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 15 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 14 | 0.58 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 14 | 0.58 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 15 | 0.58 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 9 | 0.57 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 9 | 0.57 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 9 | 0.57 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 9 | 0.57 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 9 | 0.57 |
| (1,667) | 1:C:707:ARG:H | 1:C:707:ARG:HG2 | 7 | 0.57 |
| (1,667) | 1:C:707:ARG:H | 1:C:707:ARG:HG3 | 7 | 0.57 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 9 | 0.57 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 9 | 0.57 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 9 | 0.57 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 9 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 9 | 0.57 |
| (1,326) | 1:C:707:ARG:H | 1:C:707:ARG:HG2 | 7 | 0.57 |
| (1,326) | 1:C:707:ARG:H | 1:C:707:ARG:HG3 | 7 | 0.57 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 4 | 0.57 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 9 | 0.57 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 9 | 0.57 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 9 | 0.57 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 9 | 0.57 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 9 | 0.57 |
| (1,1008) | 1:C:707:ARG:H | 1:C:707:ARG:HG2 | 7 | 0.57 |
| (1,1008) | 1:C:707:ARG:H | 1:C:707:ARG:HG3 | 7 | 0.57 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 9 | 0.56 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 9 | 0.56 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 4 | 0.56 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 12 | 0.56 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 15 | 0.56 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 15 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 4 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 4 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 12 | 0.56 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 12 | 0.56 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 9 | 0.56 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 7 | 0.55 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 7 | 0.55 |
| (1,870) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 13 | 0.55 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 8 | 0.55 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 2 | 0.55 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 2 | 0.55 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 3 | 0.55 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 3 | 0.55 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 2 | 0.55 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 4 | 0.55 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 7 | 0.55 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 7 | 0.55 |
| (1,529) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 13 | 0.55 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 8 | 0.55 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 2 | 0.55 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 2 | 0.55 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 3 | 0.55 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 3 | 0.55 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 2 | 0.55 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 4 | 0.55 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 7 | 0.55 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 7 | 0.55 |
| (1,1211) | 1:C:802:TYR:H | 1:C:803:TRP:HH2 | 13 | 0.55 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 8 | 0.55 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 2 | 0.55 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 2 | 0.55 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 3 | 0.55 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 3 | 0.55 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 2 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 4 | 0.55 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 3 | 0.54 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 7 | 0.54 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 3 | 0.54 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 7 | 0.54 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 15 | 0.54 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 3 | 0.54 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 7 | 0.54 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,868) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 1 | 0.53 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 3 | 0.53 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,527) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 1 | 0.53 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 3 | 0.53 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 11 | 0.53 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 3 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 3 | 0.53 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 3 | 0.53 |
| (1,1209) | 1:C:802:TYR:H | 1:C:802:TYR:HB3 | 1 | 0.53 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 3 | 0.53 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 13 | 0.52 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 10 | 0.52 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 13 | 0.52 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 10 | 0.52 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 6 | 0.52 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 13 | 0.52 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 10 | 0.52 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 5 | 0.52 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.51 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 13 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.51 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 13 | 0.51 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 15 | 0.51 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 13 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 7 | 0.51 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 7 | 0.51 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 6 | 0.5 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 6 | 0.5 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 1 | 0.5 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 12 | 0.5 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 11 | 0.5 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 7 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 6 | 0.5 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 6 | 0.5 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 1 | 0.5 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 12 | 0.5 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 11 | 0.5 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 7 | 0.5 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 6 | 0.5 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 6 | 0.5 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 1 | 0.5 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 12 | 0.5 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 11 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 3 | 0.5 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 3 | 0.5 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 9 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 9 | 0.5 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 8 | 0.5 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 8 | 0.5 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 14 | 0.49 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 14 | 0.49 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 14 | 0.49 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 11 | 0.49 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 8 | 0.49 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 10 | 0.49 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 7 | 0.49 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 9 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 9 | 0.49 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 9 | 0.49 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 11 | 0.49 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 8 | 0.49 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 10 | 0.49 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 7 | 0.49 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 3 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 15 | 0.49 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 15 | 0.49 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 11 | 0.49 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 8 | 0.49 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 10 | 0.49 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 7 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 1 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 2 | 0.49 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 2 | 0.49 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 2 | 0.49 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 6 | 0.48 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 2 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 14 | 0.48 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 5 | 0.48 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 5 | 0.48 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 13 | 0.48 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 13 | 0.48 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 6 | 0.48 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 2 | 0.48 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 14 | 0.48 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 5 | 0.48 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 5 | 0.48 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 1 | 0.48 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 6 | 0.48 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 2 | 0.48 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 14 | 0.48 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 5 | 0.48 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 5 | 0.48 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 2 | 0.47 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 2 | 0.47 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 2 | 0.47 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 4 | 0.47 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 5 | 0.47 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 5 | 0.47 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 5 | 0.47 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 3 | 0.47 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 10 | 0.47 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 10 | 0.47 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 5 | 0.47 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 8 | 0.47 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 4 | 0.47 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 5 | 0.47 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 5 | 0.47 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 5 | 0.47 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 3 | 0.47 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 10 | 0.47 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 10 | 0.47 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 5 | 0.47 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 8 | 0.47 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 9 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 9 | 0.47 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 3 | 0.47 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 7 | 0.47 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 7 | 0.47 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 4 | 0.47 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 5 | 0.47 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 5 | 0.47 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 5 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 13 | 0.47 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 13 | 0.47 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 3 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 10 | 0.47 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 10 | 0.47 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 5 | 0.47 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 8 | 0.47 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 4 | 0.46 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 4 | 0.46 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 4 | 0.46 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 1 | 0.46 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 10 | 0.46 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 13 | 0.46 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 8 | 0.46 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 8 | 0.46 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 4 | 0.46 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 4 | 0.46 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 4 | 0.46 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 1 | 0.46 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 10 | 0.46 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 13 | 0.46 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 8 | 0.46 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 8 | 0.46 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 14 | 0.46 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 14 | 0.46 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 7 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 7 | 0.46 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 7 | 0.46 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 11 | 0.46 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 6 | 0.46 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 4 | 0.46 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 4 | 0.46 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 4 | 0.46 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 2 | 0.46 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 13 | 0.46 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 1 | 0.46 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 10 | 0.46 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 13 | 0.46 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 8 | 0.46 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 8 | 0.46 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 13 | 0.46 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 13 | 0.46 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 13 | 0.45 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 13 | 0.45 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 13 | 0.45 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 2 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 2 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 2 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 6 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 6 | 0.45 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 6 | 0.45 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 1 | 0.45 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 13 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 14 | 0.45 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 6 | 0.45 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 2 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 2 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 2 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 6 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 6 | 0.45 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 6 | 0.45 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 1 | 0.45 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 13 | 0.45 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 14 | 0.45 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 6 | 0.45 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 8 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 2 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 2 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 2 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 6 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 6 | 0.45 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 6 | 0.45 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 6 | 0.45 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 1 | 0.45 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 13 | 0.45 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 14 | 0.45 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 6 | 0.45 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 11 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 11 | 0.45 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 2 | 0.44 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 11 | 0.44 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 6 | 0.44 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 2 | 0.44 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 11 | 0.44 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 6 | 0.44 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 7 | 0.44 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 10 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 10 | 0.44 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 15 | 0.44 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 10 | 0.44 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 10 | 0.44 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 2 | 0.44 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 11 | 0.44 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 6 | 0.44 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 14 | 0.44 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 2 | 0.43 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 2 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 2 | 0.43 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 5 | 0.43 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 5 | 0.43 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 5 | 0.43 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 6 | 0.43 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 6 | 0.43 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 10 | 0.43 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 8 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 5 | 0.43 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 5 | 0.43 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 5 | 0.43 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 6 | 0.43 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 6 | 0.43 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 10 | 0.43 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 4 | 0.43 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 4 | 0.43 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 4 | 0.43 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 4 | 0.43 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 4 | 0.43 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 4 | 0.43 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 4 | 0.43 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 4 | 0.43 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 4 | 0.43 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 8 | 0.43 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 8 | 0.43 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 8 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 8 | 0.43 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 5 | 0.43 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 5 | 0.43 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 5 | 0.43 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 6 | 0.43 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 6 | 0.43 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.43 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.43 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 1 | 0.43 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 1 | 0.43 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 1 | 0.43 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 1 | 0.43 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 1 | 0.43 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 1 | 0.43 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 8 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 8 | 0.43 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 8 | 0.43 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 10 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 3 | 0.43 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 3 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 6 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 7 | 0.43 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 7 | 0.43 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 10 | 0.42 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 14 | 0.42 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 14 | 0.42 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 14 | 0.42 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 10 | 0.42 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 14 | 0.42 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 14 | 0.42 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 10 | 0.42 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 14 | 0.42 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 10 | 0.42 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 10 | 0.42 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 10 | 0.42 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 5 | 0.42 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 5 | 0.42 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 7 | 0.42 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 7 | 0.42 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 2 | 0.42 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 12 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 10 | 0.42 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 10 | 0.42 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 10 | 0.42 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 5 | 0.42 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 5 | 0.42 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 7 | 0.42 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 7 | 0.42 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 2 | 0.42 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 4 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 5 | 0.42 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 14 | 0.42 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 10 | 0.42 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 10 | 0.42 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 10 | 0.42 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 5 | 0.42 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 5 | 0.42 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 7 | 0.42 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 7 | 0.42 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 15 | 0.42 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 2 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 12 | 0.42 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 12 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 13 | 0.42 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 13 | 0.42 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 4 | 0.42 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 9 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 5 | 0.41 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 8 | 0.41 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 13 | 0.41 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 1 | 0.41 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 7 | 0.41 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 7 | 0.41 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 7 | 0.41 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 8 | 0.41 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 12 | 0.41 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,57) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,57) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,57) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,56) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,55) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB2 | 13 | 0.41 |
| (1,55) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB2 | 13 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,55) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HB3 | 13 | 0.41 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 5 | 0.41 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 8 | 0.41 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 13 | 0.41 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 1 | 0.41 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 7 | 0.41 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 7 | 0.41 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 7 | 0.41 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 8 | 0.41 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 12 | 0.41 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 13 | 0.41 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 4 | 0.41 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 2 | 0.41 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 9 | 0.41 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 7 | 0.41 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 1 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 1 | 0.41 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 1 | 0.41 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 5 | 0.41 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 8 | 0.41 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 13 | 0.41 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 1 | 0.41 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 7 | 0.41 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 7 | 0.41 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 7 | 0.41 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 8 | 0.41 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 12 | 0.41 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 15 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 8 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 8 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 8 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 11 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 11 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 11 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.4 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.4 |
| (1,885) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,885) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,885) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 3 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 3 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 3 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 3 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 3 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 3 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 6 | 0.4 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 6 | 0.4 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 4 | 0.4 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 3 | 0.4 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 1 | 0.4 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 1 | 0.4 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 11 | 0.4 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 11 | 0.4 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 15 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 8 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 8 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 8 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 11 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 11 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 11 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.4 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.4 |
| (1,544) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,544) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,544) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 3 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 6 | 0.4 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 6 | 0.4 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 4 | 0.4 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 3 | 0.4 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 2 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 8 | 0.4 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 8 | 0.4 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 8 | 0.4 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 1 | 0.4 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 1 | 0.4 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 8 | 0.4 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 8 | 0.4 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 8 | 0.4 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 11 | 0.4 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 8 | 0.4 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 8 | 0.4 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 8 | 0.4 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 11 | 0.4 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 15 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 8 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 8 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 8 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 11 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 11 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 11 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 15 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 15 | 0.4 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 15 | 0.4 |
| (1,203) | 1:C:682:ILE:HG21 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,203) | 1:C:682:ILE:HG22 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,203) | 1:C:682:ILE:HG23 | 1:C:679:LEU:H | 8 | 0.4 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 3 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 3 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 3 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 3 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 3 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 3 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 6 | 0.4 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 6 | 0.4 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 4 | 0.4 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 3 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 2 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 10 | 0.4 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 10 | 0.4 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 2 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 11 | 0.4 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 11 | 0.4 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 1 | 0.4 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 1 | 0.4 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 11 | 0.4 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 11 | 0.4 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 13 | 0.39 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 1 | 0.39 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 12 | 0.39 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 13 | 0.39 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 13 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 1 | 0.39 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 12 | 0.39 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 1 | 0.39 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 12 | 0.39 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 9 | 0.39 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 9 | 0.39 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 9 | 0.39 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 7 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 7 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 7 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 7 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 7 | 0.39 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 7 | 0.39 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 6 | 0.39 |
| (1,784) | 1:C:774:LEU:H | 1:C:764:SER:HA | 2 | 0.39 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 6 | 0.39 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 11 | 0.39 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 14 | 0.39 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 10 | 0.39 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 13 | 0.39 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 10 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 9 | 0.39 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 9 | 0.39 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 9 | 0.39 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 7 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 7 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 7 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 7 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 7 | 0.39 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 7 | 0.39 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 6 | 0.39 |
| (1,443) | 1:C:774:LEU:H | 1:C:764:SER:HA | 2 | 0.39 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 6 | 0.39 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 11 | 0.39 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 14 | 0.39 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 10 | 0.39 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 13 | 0.39 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 10 | 0.39 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 10 | 0.39 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 9 | 0.39 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 9 | 0.39 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 9 | 0.39 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 5 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 5 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 7 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 7 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 7 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 7 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 7 | 0.39 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 7 | 0.39 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 6 | 0.39 |
| (1,1125) | 1:C:774:LEU:H | 1:C:764:SER:HA | 2 | 0.39 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 6 | 0.39 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 11 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 9 | 0.39 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 9 | 0.39 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 14 | 0.39 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 10 | 0.39 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 13 | 0.39 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,939) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 2 | 0.38 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 1 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 1 | 0.38 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 1 | 0.38 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 3 | 0.38 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 3 | 0.38 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 3 | 0.38 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.38 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 13 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 13 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 13 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 13 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 13 | 0.38 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 13 | 0.38 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 2 | 0.38 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 13 | 0.38 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 11 | 0.38 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 11 | 0.38 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 5 | 0.38 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 10 | 0.38 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,598) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 2 | 0.38 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 1 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 1 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 1 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 3 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 3 | 0.38 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 3 | 0.38 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.38 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 13 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 13 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 13 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 13 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 13 | 0.38 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 13 | 0.38 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 2 | 0.38 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 13 | 0.38 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 11 | 0.38 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 11 | 0.38 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 5 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 10 | 0.38 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 5 | 0.38 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 5 | 0.38 |
| (1,257) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 2 | 0.38 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.38 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.38 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 13 | 0.38 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 14 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 1 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 1 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 1 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 3 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 3 | 0.38 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 3 | 0.38 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 15 | 0.38 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 15 | 0.38 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 14 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 14 | 0.38 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 14 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 13 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 13 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 13 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 13 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 13 | 0.38 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 13 | 0.38 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 2 | 0.38 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 13 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 1 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 15 | 0.38 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 15 | 0.38 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 11 | 0.38 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 11 | 0.38 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 5 | 0.38 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 10 | 0.38 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 8 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 8 | 0.38 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 10 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 10 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 10 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 10 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 10 | 0.37 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 10 | 0.37 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 9 | 0.37 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 4 | 0.37 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 5 | 0.37 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 7 | 0.37 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 7 | 0.37 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 8 | 0.37 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 6 | 0.37 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 9 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 10 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 10 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 10 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 10 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 10 | 0.37 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 10 | 0.37 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 9 | 0.37 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 4 | 0.37 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 5 | 0.37 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 7 | 0.37 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 7 | 0.37 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 8 | 0.37 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 6 | 0.37 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 2 | 0.37 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 2 | 0.37 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 7 | 0.37 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 7 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 10 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 10 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 10 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 10 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 10 | 0.37 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 10 | 0.37 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 9 | 0.37 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 4 | 0.37 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 5 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 13 | 0.37 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 13 | 0.37 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 6 | 0.37 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 7 | 0.37 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 7 | 0.37 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 8 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 10 | 0.37 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 10 | 0.37 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 6 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 9 | 0.37 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 9 | 0.37 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 3 | 0.36 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 13 | 0.36 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 10 | 0.36 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 14 | 0.36 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 3 | 0.36 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 13 | 0.36 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 10 | 0.36 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 14 | 0.36 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 3 | 0.36 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 13 | 0.36 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 10 | 0.36 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 14 | 0.36 |
| (1,924) | 1:C:693:ILE:HD11 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,924) | 1:C:693:ILE:HD12 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,924) | 1:C:693:ILE:HD13 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 7 | 0.36 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 7 | 0.36 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 7 | 0.36 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.36 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.36 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.36 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.36 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.36 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 7 | 0.36 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.36 |
| (1,583) | 1:C:693:ILE:HD11 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,583) | 1:C:693:ILE:HD12 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,583) | 1:C:693:ILE:HD13 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 7 | 0.36 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 7 | 0.36 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 7 | 0.36 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.36 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.36 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 7 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 10 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 10 | 0.36 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 10 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 10 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 10 | 0.36 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 10 | 0.36 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 10 | 0.36 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 10 | 0.36 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 10 | 0.36 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.36 |
| (1,242) | 1:C:693:ILE:HD11 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,242) | 1:C:693:ILE:HD12 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,242) | 1:C:693:ILE:HD13 | 1:C:697:ILE:H | 7 | 0.36 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 7 | 0.36 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 7 | 0.36 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 7 | 0.36 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 15 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 15 | 0.36 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 2 | 0.36 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 2 | 0.36 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 2 | 0.36 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 2 | 0.36 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 2 | 0.36 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 2 | 0.36 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 2 | 0.36 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 2 | 0.36 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 2 | 0.36 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 2 | 0.36 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 2 | 0.36 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 2 | 0.36 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 9 | 0.36 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 9 | 0.36 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 9 | 0.36 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 9 | 0.36 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 9 | 0.36 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 9 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.36 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.36 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 7 | 0.36 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 15 | 0.36 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 12 | 0.35 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 12 | 0.35 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 12 | 0.35 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 14 | 0.35 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 14 | 0.35 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 14 | 0.35 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 2 | 0.35 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 2 | 0.35 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 2 | 0.35 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 2 | 0.35 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 2 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 2 | 0.35 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 9 | 0.35 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 14 | 0.35 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 2 | 0.35 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 14 | 0.35 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 14 | 0.35 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 14 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 2 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 2 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 2 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 2 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 2 | 0.35 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 2 | 0.35 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 9 | 0.35 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 14 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 2 | 0.35 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 12 | 0.35 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 14 | 0.35 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 14 | 0.35 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 14 | 0.35 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 1 | 0.35 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 1 | 0.35 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 1 | 0.35 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 1 | 0.35 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 1 | 0.35 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 1 | 0.35 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 6 | 0.35 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 6 | 0.35 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 6 | 0.35 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 6 | 0.35 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 6 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 6 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 2 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 2 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 2 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 2 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 2 | 0.35 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 2 | 0.35 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 9 | 0.35 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 14 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 4 | 0.35 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 4 | 0.35 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 3 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 8 | 0.35 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 8 | 0.35 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 8 | 0.35 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 2 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 4 | 0.35 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 4 | 0.35 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 3 | 0.34 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 3 | 0.34 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 9 | 0.34 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 9 | 0.34 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 3 | 0.34 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 9 | 0.34 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 15 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 7 | 0.34 |
| (1,897) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,897) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,897) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 15 | 0.34 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 15 | 0.34 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 1 | 0.34 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 1 | 0.34 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 1 | 0.34 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 1 | 0.34 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 1 | 0.34 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 9 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 1 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 1 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 1 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 1 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 1 | 0.34 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 1 | 0.34 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 6 | 0.34 |
| (1,834) | 1:C:782:VAL:HG21 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,834) | 1:C:782:VAL:HG22 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,834) | 1:C:782:VAL:HG23 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 2 | 0.34 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 8 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 14 | 0.34 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 14 | 0.34 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 1 | 0.34 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 4 | 0.34 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 9 | 0.34 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 7 | 0.34 |
| (1,556) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,556) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,556) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 15 | 0.34 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 15 | 0.34 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 1 | 0.34 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 1 | 0.34 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 1 | 0.34 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 1 | 0.34 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 1 | 0.34 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 9 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 1 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 1 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 1 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 1 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 1 | 0.34 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 1 | 0.34 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 6 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,493) | 1:C:782:VAL:HG21 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,493) | 1:C:782:VAL:HG22 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,493) | 1:C:782:VAL:HG23 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 2 | 0.34 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 14 | 0.34 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 14 | 0.34 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 1 | 0.34 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 4 | 0.34 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 9 | 0.34 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 15 | 0.34 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 15 | 0.34 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 15 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 7 | 0.34 |
| (1,215) | 1:C:684:ILE:HG21 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,215) | 1:C:684:ILE:HG22 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,215) | 1:C:684:ILE:HG23 | 1:C:681:TYR:HA | 1 | 0.34 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 15 | 0.34 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 15 | 0.34 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 1 | 0.34 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 1 | 0.34 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 1 | 0.34 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 1 | 0.34 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 1 | 0.34 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 9 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 1 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 1 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 1 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 1 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 1 | 0.34 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 1 | 0.34 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 6 | 0.34 |
| (1,1175) | 1:C:782:VAL:HG21 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,1175) | 1:C:782:VAL:HG22 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,1175) | 1:C:782:VAL:HG23 | 1:C:779:THR:HA | 3 | 0.34 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 2 | 0.34 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 8 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 11 | 0.34 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 11 | 0.34 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 5 | 0.34 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 8 | 0.34 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 14 | 0.34 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 14 | 0.34 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 5 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 5 | 0.34 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 5 | 0.34 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 1 | 0.34 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 4 | 0.34 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 9 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 8 | 0.34 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 8 | 0.34 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 1 | 0.33 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 1 | 0.33 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 1 | 0.33 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 4 | 0.33 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 3 | 0.33 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 5 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 5 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 5 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 5 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 5 | 0.33 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 5 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 7 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 7 | 0.33 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 7 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 6 | 0.33 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 6 | 0.33 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 6 | 0.33 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 6 | 0.33 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 6 | 0.33 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 6 | 0.33 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 7 | 0.33 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 12 | 0.33 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 11 | 0.33 |
| (1,773) | 1:C:771:LEU:HD11 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,773) | 1:C:771:LEU:HD12 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,773) | 1:C:771:LEU:HD13 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,767) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,767) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,767) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 5 | 0.33 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 9 | 0.33 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 14 | 0.33 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 7 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 4 | 0.33 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 3 | 0.33 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 5 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 5 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 5 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 5 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 5 | 0.33 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 5 | 0.33 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 7 | 0.33 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 7 | 0.33 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 7 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 6 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 6 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 6 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 6 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 6 | 0.33 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 6 | 0.33 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 7 | 0.33 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 12 | 0.33 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 11 | 0.33 |
| (1,432) | 1:C:771:LEU:HD11 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,432) | 1:C:771:LEU:HD12 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,432) | 1:C:771:LEU:HD13 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,426) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,426) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,426) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 5 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 9 | 0.33 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 14 | 0.33 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 7 | 0.33 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 7 | 0.33 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 4 | 0.33 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 3 | 0.33 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 3 | 0.33 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 4 | 0.33 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 2 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 2 | 0.33 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 2 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 5 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 5 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 5 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 5 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 5 | 0.33 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 5 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 7 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 7 | 0.33 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 7 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 6 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 6 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 6 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 6 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 6 | 0.33 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 6 | 0.33 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 7 | 0.33 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 12 | 0.33 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 11 | 0.33 |
| (1,1114) | 1:C:771:LEU:HD11 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,1114) | 1:C:771:LEU:HD12 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,1114) | 1:C:771:LEU:HD13 | 1:C:764:SER:HA | 8 | 0.33 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 6 | 0.33 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 6 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 6 | 0.33 |
| (1,1108) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,1108) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,1108) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 10 | 0.33 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 5 | 0.33 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 9 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 6 | 0.33 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 6 | 0.33 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 14 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 5 | 0.33 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 5 | 0.33 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.32 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 7 | 0.32 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.32 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 1 | 0.32 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 1 | 0.32 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 13 | 0.32 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 7 | 0.32 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 1 | 0.32 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 7 | 0.32 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 11 | 0.32 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 11 | 0.32 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 11 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 7 | 0.32 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 13 | 0.32 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 5 | 0.32 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 11 | 0.32 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 10 | 0.32 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 7 | 0.32 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 12 | 0.32 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,747) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD21 | 3 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,747) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,747) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.32 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.32 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 4 | 0.32 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 11 | 0.32 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 6 | 0.32 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 6 | 0.32 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 11 | 0.32 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 11 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 7 | 0.32 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 13 | 0.32 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 5 | 0.32 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 11 | 0.32 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 10 | 0.32 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 7 | 0.32 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 12 | 0.32 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,406) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD23 | 3 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,406) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,406) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.32 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.32 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 4 | 0.32 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 2 | 0.32 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 11 | 0.32 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 6 | 0.32 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 6 | 0.32 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.32 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.32 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 11 | 0.32 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 11 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 14 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.32 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 7 | 0.32 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,18) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,17) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG21 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG22 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG21 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG22 | 13 | 0.32 |
| (1,16) | 1:C:687:ILE:HG23 | 1:C:689:VAL:HG23 | 13 | 0.32 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 8 | 0.32 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 8 | 0.32 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 8 | 0.32 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 5 | 0.32 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 11 | 0.32 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 10 | 0.32 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 2 | 0.32 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 7 | 0.32 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 12 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.32 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB1 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB2 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD21 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD22 | 3 | 0.32 |
| (1,1088) | 1:C:754:ALA:HB3 | 1:C:753:LEU:HD23 | 3 | 0.32 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 12 | 0.32 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 12 | 0.32 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 4 | 0.32 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 7 | 0.31 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 8 | 0.31 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 10 | 0.31 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.31 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 7 | 0.31 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 8 | 0.31 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 10 | 0.31 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.31 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 7 | 0.31 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 8 | 0.31 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 10 | 0.31 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 15 | 0.31 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 14 | 0.31 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 15 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 15 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 15 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 15 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 15 | 0.31 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 15 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 2 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 2 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 2 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 2 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 2 | 0.31 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 2 | 0.31 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 9 | 0.31 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 2 | 0.31 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 2 | 0.31 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 12 | 0.31 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 1 | 0.31 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 1 | 0.31 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 6 | 0.31 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 14 | 0.31 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 12 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 12 | 0.31 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 12 | 0.31 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 15 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 15 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 15 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 15 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 15 | 0.31 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 15 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 2 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 2 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 2 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 2 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 2 | 0.31 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 2 | 0.31 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 4 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 4 | 0.31 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 4 | 0.31 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 9 | 0.31 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 2 | 0.31 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 2 | 0.31 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 12 | 0.31 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 1 | 0.31 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 1 | 0.31 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 6 | 0.31 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 1 | 0.31 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 1 | 0.31 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 14 | 0.31 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 2 | 0.31 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 2 | 0.31 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 14 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 14 | 0.31 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 14 | 0.31 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 10 | 0.31 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 10 | 0.31 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 10 | 0.31 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 10 | 0.31 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 10 | 0.31 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 10 | 0.31 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 1 | 0.31 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 1 | 0.31 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 1 | 0.31 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 1 | 0.31 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 1 | 0.31 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 1 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 15 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 15 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 15 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 15 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 15 | 0.31 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 15 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 2 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 2 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 2 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 2 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 2 | 0.31 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 2 | 0.31 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 9 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 15 | 0.31 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 15 | 0.31 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 2 | 0.31 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 2 | 0.31 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 12 | 0.31 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 1 | 0.31 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 1 | 0.31 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 6 | 0.31 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 7 | 0.3 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 7 | 0.3 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 8 | 0.3 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 8 | 0.3 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 7 | 0.3 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 8 | 0.3 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 8 | 0.3 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 8 | 0.3 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 11 | 0.3 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 12 | 0.3 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 12 | 0.3 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 12 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 9 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 9 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 12 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 12 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 13 | 0.3 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 13 | 0.3 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 4 | 0.3 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 4 | 0.3 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 8 | 0.3 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 5 | 0.3 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 3 | 0.3 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 10 | 0.3 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 1 | 0.3 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 7 | 0.3 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 11 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 11 | 0.3 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 12 | 0.3 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 12 | 0.3 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 12 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 9 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 9 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 12 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 12 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 13 | 0.3 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 13 | 0.3 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 4 | 0.3 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 4 | 0.3 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 8 | 0.3 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 5 | 0.3 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 10 | 0.3 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 10 | 0.3 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 3 | 0.3 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 10 | 0.3 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 1 | 0.3 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 7 | 0.3 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 6 | 0.3 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 6 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 6 | 0.3 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 11 | 0.3 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 11 | 0.3 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 3 | 0.3 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 3 | 0.3 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.3 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.3 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 4 | 0.3 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 15 | 0.3 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 15 | 0.3 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 15 | 0.3 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 12 | 0.3 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 12 | 0.3 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 12 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 9 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 9 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 12 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 12 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 13 | 0.3 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 13 | 0.3 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.3 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 5 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 5 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 9 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 9 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 11 | 0.3 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 11 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 5 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 5 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 9 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 9 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 11 | 0.3 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 11 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 5 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 5 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 9 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 9 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 11 | 0.3 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 11 | 0.3 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 4 | 0.3 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 4 | 0.3 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 8 | 0.3 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 5 | 0.3 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 3 | 0.3 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 14 | 0.3 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 10 | 0.3 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 1 | 0.3 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 7 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 4 | 0.3 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 4 | 0.3 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 8 | 0.29 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 15 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 6 | 0.29 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 9 | 0.29 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 8 | 0.29 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 15 | 0.29 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 6 | 0.29 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 6 | 0.29 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 6 | 0.29 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 8 | 0.29 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 15 | 0.29 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 6 | 0.29 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 9 | 0.29 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 6 | 0.29 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 9 | 0.29 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 1 | 0.29 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,881) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,881) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,881) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,881) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,881) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,881) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 13 | 0.29 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 13 | 0.29 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.29 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.29 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.29 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 3 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.29 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.29 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 12 | 0.29 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 13 | 0.29 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.29 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 15 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 1 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 1 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 3 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 3 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 6 | 0.29 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 6 | 0.29 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.29 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.29 |
| (1,691) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 2 | 0.29 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 3 | 0.29 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 1 | 0.29 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,540) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,540) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,540) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,540) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,540) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,540) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 13 | 0.29 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 13 | 0.29 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.29 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.29 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.29 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 3 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.29 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.29 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 12 | 0.29 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 14 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 10 | 0.29 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 14 | 0.29 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 14 | 0.29 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 13 | 0.29 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.29 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 15 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 1 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 1 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 3 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 3 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 6 | 0.29 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 6 | 0.29 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.29 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.29 |
| (1,350) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 2 | 0.29 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 3 | 0.29 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 4 | 0.29 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 4 | 0.29 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 9 | 0.29 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.29 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.29 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 1 | 0.29 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 9 | 0.29 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 11 | 0.29 |
| (1,199) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,199) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,199) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,199) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,199) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,199) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 13 | 0.29 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 3 | 0.29 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 3 | 0.29 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 3 | 0.29 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 3 | 0.29 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 3 | 0.29 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 3 | 0.29 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 13 | 0.29 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 13 | 0.29 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 13 | 0.29 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 13 | 0.29 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 13 | 0.29 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 13 | 0.29 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 13 | 0.29 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 13 | 0.29 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 3 | 0.29 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 3 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 11 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 11 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 11 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 11 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 11 | 0.29 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 11 | 0.29 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 3 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.29 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.29 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 12 | 0.29 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 13 | 0.29 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 13 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 15 | 0.29 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 15 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 1 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 1 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 3 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 3 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 6 | 0.29 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 6 | 0.29 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 15 | 0.29 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 15 | 0.29 |
| (1,1032) | 1:C:710:GLN:H | 1:C:710:GLN:HB3 | 2 | 0.29 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 3 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 12 | 0.29 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 12 | 0.29 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 10 | 0.28 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 4 | 0.28 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 11 | 0.28 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 10 | 0.28 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 8 | 0.28 |
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 8 | 0.28 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 11 | 0.28 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 11 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 10 | 0.28 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 4 | 0.28 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 11 | 0.28 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 8 | 0.28 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 11 | 0.28 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 4 | 0.28 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 11 | 0.28 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 1 | 0.28 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 4 | 0.28 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 4 | 0.28 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 9 | 0.28 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 9 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 5 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 5 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 14 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 14 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.28 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.28 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 6 | 0.28 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 6 | 0.28 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 6 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 6 | 0.28 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 6 | 0.28 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 6 | 0.28 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 3 | 0.28 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 3 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 10 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 10 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 10 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 10 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 10 | 0.28 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 10 | 0.28 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 14 | 0.28 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 3 | 0.28 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 4 | 0.28 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 14 | 0.28 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 15 | 0.28 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 10 | 0.28 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 10 | 0.28 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 1 | 0.28 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 3 | 0.28 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 3 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 1 | 0.28 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 4 | 0.28 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 4 | 0.28 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 9 | 0.28 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 9 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 5 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 5 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 14 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 14 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.28 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 6 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 6 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 6 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 6 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 6 | 0.28 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 6 | 0.28 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 3 | 0.28 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 3 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 10 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 10 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 10 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 10 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 10 | 0.28 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 10 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 14 | 0.28 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 3 | 0.28 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 4 | 0.28 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 14 | 0.28 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 15 | 0.28 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 10 | 0.28 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 10 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 3 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 3 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 3 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 14 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 14 | 0.28 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 14 | 0.28 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 1 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 3 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 3 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 3 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 14 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 14 | 0.28 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 14 | 0.28 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 3 | 0.28 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 3 | 0.28 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 3 | 0.28 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 14 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 14 | 0.28 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 14 | 0.28 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 3 | 0.28 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 3 | 0.28 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 4 | 0.28 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 4 | 0.28 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 1 | 0.28 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 5 | 0.28 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 5 | 0.28 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 4 | 0.28 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 4 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 13 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 13 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 14 | 0.28 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 14 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 13 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 13 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 14 | 0.28 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 14 | 0.28 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 13 | 0.28 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 13 | 0.28 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 14 | 0.28 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 14 | 0.28 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 9 | 0.28 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 9 | 0.28 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 5 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 5 | 0.28 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 14 | 0.28 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 14 | 0.28 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 15 | 0.28 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 15 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 6 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 6 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 6 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 6 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 6 | 0.28 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 6 | 0.28 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 3 | 0.28 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 3 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 10 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 10 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 10 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 10 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 10 | 0.28 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 10 | 0.28 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 14 | 0.28 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 4 | 0.28 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 3 | 0.28 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 4 | 0.28 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 14 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 3 | 0.28 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 3 | 0.28 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 15 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 14 | 0.28 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 14 | 0.28 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 10 | 0.28 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 10 | 0.28 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 1 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 15 | 0.28 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 3 | 0.28 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 6 | 0.27 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 12 | 0.27 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 6 | 0.27 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 12 | 0.27 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 9 | 0.27 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 9 | 0.27 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 6 | 0.27 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 12 | 0.27 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 9 | 0.27 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 6 | 0.27 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 6 | 0.27 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 4 | 0.27 |
| (1,862) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 12 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 14 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 14 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 14 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 14 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 14 | 0.27 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 14 | 0.27 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 11 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD11 | 2 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD12 | 2 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD13 | 2 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD21 | 2 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD22 | 2 | 0.27 |
| (1,669) | 1:C:707:ARG:HE | 1:C:704:LEU:HD23 | 2 | 0.27 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 8 | 0.27 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 6 | 0.27 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 6 | 0.27 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 4 | 0.27 |
| (1,521) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 12 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 14 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 14 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 14 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 14 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 14 | 0.27 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 14 | 0.27 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 5 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD11 | 2 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD12 | 2 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD13 | 2 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD21 | 2 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD22 | 2 | 0.27 |
| (1,328) | 1:C:707:ARG:HE | 1:C:704:LEU:HD23 | 2 | 0.27 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 8 | 0.27 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 5 | 0.27 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 5 | 0.27 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 8 | 0.27 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 6 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 6 | 0.27 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 6 | 0.27 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 6 | 0.27 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 11 | 0.27 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 11 | 0.27 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 12 | 0.27 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.27 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.27 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.27 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.27 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 10 | 0.27 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 10 | 0.27 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 4 | 0.27 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 4 | 0.27 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 4 | 0.27 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 4 | 0.27 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 4 | 0.27 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 4 | 0.27 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 6 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 6 | 0.27 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 4 | 0.27 |
| (1,1203) | 1:C:793:LEU:H | 1:C:790:TRP:HE3 | 12 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 14 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 14 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 14 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 14 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 14 | 0.27 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 14 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 5 | 0.27 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 5 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 7 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 11 | 0.27 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 11 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 7 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 11 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 15 | 0.27 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 15 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD11 | 2 | 0.27 |
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD12 | 2 | 0.27 |
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD13 | 2 | 0.27 |
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD21 | 2 | 0.27 |
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD22 | 2 | 0.27 |
| (1,1010) | 1:C:707:ARG:HE | 1:C:704:LEU:HD23 | 2 | 0.27 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 8 | 0.27 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 11 | 0.26 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 3 | 0.26 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 5 | 0.26 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 11 | 0.26 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 4 | 0.26 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 4 | 0.26 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 11 | 0.26 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 3 | 0.26 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 5 | 0.26 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 4 | 0.26 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 3 | 0.26 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 5 | 0.26 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,989) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,989) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,989) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 4 | 0.26 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,939) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 7 | 0.26 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 12 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 13 | 0.26 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 13 | 0.26 |
| (1,891) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 13 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 4 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 4 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 4 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 4 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 4 | 0.26 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 4 | 0.26 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 13 | 0.26 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 13 | 0.26 |
| (1,864) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 13 | 0.26 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 15 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.26 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.26 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 1 | 0.26 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 2 | 0.26 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 2 | 0.26 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 12 | 0.26 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 9 | 0.26 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 9 | 0.26 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 15 | 0.26 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 15 | 0.26 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 11 | 0.26 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,679) | 1:C:709:ARG:H | 1:C:707:ARG:H | 8 | 0.26 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 15 | 0.26 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,648) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,648) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,648) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 4 | 0.26 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,598) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 7 | 0.26 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 13 | 0.26 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 13 | 0.26 |
| (1,550) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 13 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 4 | 0.26 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 4 | 0.26 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 4 | 0.26 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 4 | 0.26 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 4 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 4 | 0.26 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 13 | 0.26 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 13 | 0.26 |
| (1,523) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 13 | 0.26 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 15 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.26 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.26 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 1 | 0.26 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 2 | 0.26 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 2 | 0.26 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 9 | 0.26 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 9 | 0.26 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 12 | 0.26 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 9 | 0.26 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 9 | 0.26 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 15 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 15 | 0.26 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 11 | 0.26 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,338) | 1:C:709:ARG:H | 1:C:707:ARG:H | 8 | 0.26 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 15 | 0.26 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 1 | 0.26 |
| (1,307) | 1:C:705:VAL:HG11 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,307) | 1:C:705:VAL:HG12 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,307) | 1:C:705:VAL:HG13 | 1:C:702:LEU:HA | 2 | 0.26 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 4 | 0.26 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 15 | 0.26 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 15 | 0.26 |
| (1,257) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 7 | 0.26 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 6 | 0.26 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 12 | 0.26 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 12 | 0.26 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.26 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 3 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 6 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 11 | 0.26 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 11 | 0.26 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 5 | 0.26 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 5 | 0.26 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG21 | 13 | 0.26 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG22 | 13 | 0.26 |
| (1,209) | 1:C:683:ARG:HE | 1:C:687:ILE:HG23 | 13 | 0.26 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.26 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.26 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.26 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 4 | 0.26 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 4 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 4 | 0.26 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 4 | 0.26 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 4 | 0.26 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 4 | 0.26 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 4 | 0.26 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD11 | 13 | 0.26 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD12 | 13 | 0.26 |
| (1,1205) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD13 | 13 | 0.26 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 15 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 5 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 5 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 5 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 5 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 5 | 0.26 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 5 | 0.26 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 1 | 0.26 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 2 | 0.26 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 2 | 0.26 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 12 | 0.26 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 10 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 15 | 0.26 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 9 | 0.26 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 9 | 0.26 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 15 | 0.26 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 15 | 0.26 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 11 | 0.26 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 8 | 0.26 |
| (1,1020) | 1:C:709:ARG:H | 1:C:707:ARG:H | 8 | 0.26 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 15 | 0.26 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 5 | 0.25 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 5 | 0.25 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 1 | 0.25 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 1 | 0.25 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 3 | 0.25 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 7 | 0.25 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 3 | 0.25 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 7 | 0.25 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 5 | 0.25 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.25 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 1 | 0.25 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 3 | 0.25 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 7 | 0.25 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 15 | 0.25 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 9 | 0.25 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 14 | 0.25 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 14 | 0.25 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 15 | 0.25 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 15 | 0.25 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 3 | 0.25 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 3 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.25 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.25 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 5 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 8 | 0.25 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 9 | 0.25 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 8 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 5 | 0.25 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.25 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 4 | 0.25 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 4 | 0.25 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 3 | 0.25 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 13 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 9 | 0.25 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 4 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 14 | 0.25 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 14 | 0.25 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 15 | 0.25 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 15 | 0.25 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 3 | 0.25 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 3 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.25 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.25 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 8 | 0.25 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 9 | 0.25 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 8 | 0.25 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 5 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 7 | 0.25 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 7 | 0.25 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 7 | 0.25 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.25 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 4 | 0.25 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 4 | 0.25 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 7 | 0.25 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 7 | 0.25 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 7 | 0.25 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 7 | 0.25 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 7 | 0.25 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 7 | 0.25 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 3 | 0.25 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 13 | 0.25 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 13 | 0.25 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 7 | 0.25 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 7 | 0.25 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 1 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 1 | 0.25 |
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 1 | 0.25 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 9 | 0.25 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 8 | 0.25 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 8 | 0.25 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 7 | 0.25 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 12 | 0.25 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 12 | 0.25 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 12 | 0.25 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 2 | 0.25 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 2 | 0.25 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 4 | 0.25 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 4 | 0.25 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 14 | 0.25 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 14 | 0.25 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 8 | 0.25 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 8 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 8 | 0.25 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 8 | 0.25 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 8 | 0.25 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 8 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 8 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 8 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 12 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 12 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 14 | 0.25 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 14 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 8 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 8 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 12 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 12 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 14 | 0.25 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 14 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 8 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 8 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 12 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 12 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 14 | 0.25 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 14 | 0.25 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 15 | 0.25 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 15 | 0.25 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 15 | 0.25 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 15 | 0.25 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 15 | 0.25 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 15 | 0.25 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 15 | 0.25 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 15 | 0.25 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 3 | 0.25 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 3 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.25 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.25 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 5 | 0.25 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 8 | 0.25 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 9 | 0.25 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 8 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 4 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 6 | 0.25 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 6 | 0.25 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 5 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 3 | 0.25 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 3 | 0.25 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 15 | 0.25 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 4 | 0.25 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 4 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 1 | 0.25 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 1 | 0.25 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 10 | 0.25 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 3 | 0.25 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 11 | 0.24 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 11 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 3 | 0.24 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 5 | 0.24 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 3 | 0.24 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 5 | 0.24 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 5 | 0.24 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 15 | 0.24 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 5 | 0.24 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 15 | 0.24 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 11 | 0.24 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 3 | 0.24 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 5 | 0.24 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 5 | 0.24 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 15 | 0.24 |
| (1,978) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 6 | 0.24 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 1 | 0.24 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 1 | 0.24 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 8 | 0.24 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 8 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.24 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.24 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 1 | 0.24 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 7 | 0.24 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 11 | 0.24 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 11 | 0.24 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 6 | 0.24 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 12 | 0.24 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 13 | 0.24 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 12 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,637) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 6 | 0.24 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 1 | 0.24 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 1 | 0.24 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 8 | 0.24 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 8 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.24 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 1 | 0.24 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 7 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 1 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 1 | 0.24 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 1 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 12 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 13 | 0.24 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 13 | 0.24 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 1 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 1 | 0.24 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 7 | 0.24 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 7 | 0.24 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 11 | 0.24 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 11 | 0.24 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 6 | 0.24 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 12 | 0.24 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 13 | 0.24 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,296) | 1:C:704:LEU:H | 1:C:704:LEU:HB3 | 6 | 0.24 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 7 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 7 | 0.24 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 7 | 0.24 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 1 | 0.24 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 1 | 0.24 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 6 | 0.24 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 6 | 0.24 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 6 | 0.24 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 2 | 0.24 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 7 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 4 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 6 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 6 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 9 | 0.24 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 9 | 0.24 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 1 | 0.24 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 1 | 0.24 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 12 | 0.24 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 12 | 0.24 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 1 | 0.24 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 1 | 0.24 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.24 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.24 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 7 | 0.24 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 7 | 0.24 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 7 | 0.24 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 7 | 0.24 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 7 | 0.24 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 7 | 0.24 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 8 | 0.24 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 8 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.24 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 1 | 0.24 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 7 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 1 | 0.24 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 1 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 6 | 0.24 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 6 | 0.24 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 11 | 0.24 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 11 | 0.24 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 6 | 0.24 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 12 | 0.24 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 13 | 0.24 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 7 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 8 | 0.24 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 8 | 0.24 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 12 | 0.24 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 12 | 0.24 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 5 | 0.23 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 7 | 0.23 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 5 | 0.23 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 10 | 0.23 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 7 | 0.23 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 10 | 0.23 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 5 | 0.23 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 7 | 0.23 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 10 | 0.23 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 2 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 2 | 0.23 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 10 | 0.23 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 10 | 0.23 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.23 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 2 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 2 | 0.23 |
| (1,813) | 1:C:779:THR:H | 1:C:776:LEU:HA | 10 | 0.23 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 7 | 0.23 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 14 | 0.23 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.23 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 13 | 0.23 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 13 | 0.23 |
| (1,711) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.23 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 10 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 2 | 0.23 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,60) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,60) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,60) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 15 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,59) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,59) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,59) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG21 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG22 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE1 | 1 | 0.23 |
| (1,58) | 1:C:708:VAL:HG23 | 1:C:712:TYR:HE2 | 1 | 0.23 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 10 | 0.23 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 10 | 0.23 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.23 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 2 | 0.23 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 2 | 0.23 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,472) | 1:C:779:THR:H | 1:C:776:LEU:HA | 10 | 0.23 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 9 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 9 | 0.23 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 9 | 0.23 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 13 | 0.23 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 13 | 0.23 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 3 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 7 | 0.23 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 14 | 0.23 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.23 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 13 | 0.23 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 13 | 0.23 |
| (1,370) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.23 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 2 | 0.23 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 2 | 0.23 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 8 | 0.23 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 8 | 0.23 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 8 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 2 | 0.23 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 3 | 0.23 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 1 | 0.23 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 15 | 0.23 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 15 | 0.23 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 7 | 0.23 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 7 | 0.23 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 8 | 0.23 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 10 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 2 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 4 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 4 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 9 | 0.23 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 9 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 11 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 14 | 0.23 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 14 | 0.23 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 10 | 0.23 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 10 | 0.23 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 14 | 0.23 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 13 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 6 | 0.23 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 6 | 0.23 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 6 | 0.23 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 6 | 0.23 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 6 | 0.23 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 6 | 0.23 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 11 | 0.23 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 11 | 0.23 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 11 | 0.23 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 11 | 0.23 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 11 | 0.23 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 11 | 0.23 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 2 | 0.23 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 2 | 0.23 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 2 | 0.23 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 2 | 0.23 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 2 | 0.23 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 2 | 0.23 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 6 | 0.23 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 2 | 0.23 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 2 | 0.23 |
| (1,1154) | 1:C:779:THR:H | 1:C:776:LEU:HA | 10 | 0.23 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 12 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 7 | 0.23 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 7 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 15 | 0.23 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 15 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 3 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 4 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 12 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 4 | 0.23 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 4 | 0.23 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 7 | 0.23 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 14 | 0.23 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 9 | 0.23 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 13 | 0.23 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 13 | 0.23 |
| (1,1052) | 1:C:746:ILE:H | 1:C:742:ARG:HA | 15 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 10 | 0.23 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 10 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 13 | 0.23 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 13 | 0.23 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 13 | 0.23 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 12 | 0.22 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 9 | 0.22 |
| (2,87) | 1:B:790:TRP:O | 1:B:794:LYS:H | 6 | 0.22 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 12 | 0.22 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 15 | 0.22 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 9 | 0.22 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 15 | 0.22 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 6 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 6 | 0.22 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 12 | 0.22 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 9 | 0.22 |
| (2,173) | 1:B:790:TRP:O | 1:B:794:LYS:H | 6 | 0.22 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 15 | 0.22 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 6 | 0.22 |
| (2,1) | 1:B:790:TRP:O | 1:B:794:LYS:H | 6 | 0.22 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,993) | 1:C:705:VAL:HG21 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,993) | 1:C:705:VAL:HG22 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,993) | 1:C:705:VAL:HG23 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 3 | 0.22 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 5 | 0.22 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 6 | 0.22 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 10 | 0.22 |
| (1,939) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 15 | 0.22 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 2 | 0.22 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 11 | 0.22 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 11 | 0.22 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 4 | 0.22 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 4 | 0.22 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 2 | 0.22 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 2 | 0.22 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 15 | 0.22 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 15 | 0.22 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 3 | 0.22 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 14 | 0.22 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 14 | 0.22 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 7 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 4 | 0.22 |
| (1,767) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,767) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,767) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,764) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,764) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,764) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,764) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,764) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,764) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 11 | 0.22 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 12 | 0.22 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 14 | 0.22 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 12 | 0.22 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 12 | 0.22 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,652) | 1:C:705:VAL:HG21 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,652) | 1:C:705:VAL:HG22 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,652) | 1:C:705:VAL:HG23 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 3 | 0.22 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 5 | 0.22 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 6 | 0.22 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 10 | 0.22 |
| (1,598) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 15 | 0.22 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 2 | 0.22 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 11 | 0.22 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 11 | 0.22 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 4 | 0.22 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 4 | 0.22 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 2 | 0.22 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 2 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 15 | 0.22 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 15 | 0.22 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 3 | 0.22 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 2 | 0.22 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 4 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 14 | 0.22 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 14 | 0.22 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 2 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 4 | 0.22 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 4 | 0.22 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 4 | 0.22 |
| (1,426) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,426) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,426) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 8 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,423) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,423) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,423) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,423) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,423) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,423) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 11 | 0.22 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 12 | 0.22 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 14 | 0.22 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 12 | 0.22 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 12 | 0.22 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 11 | 0.22 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 11 | 0.22 |
| (1,311) | 1:C:705:VAL:HG21 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,311) | 1:C:705:VAL:HG22 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,311) | 1:C:705:VAL:HG23 | 1:C:702:LEU:HG | 3 | 0.22 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 13 | 0.22 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 13 | 0.22 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 3 | 0.22 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 5 | 0.22 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 6 | 0.22 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 10 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,257) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 15 | 0.22 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 5 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 8 | 0.22 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 8 | 0.22 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 3 | 0.22 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 3 | 0.22 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 2 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 3 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 3 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 6 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 6 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.22 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 3 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 3 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 6 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 6 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.22 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.22 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 3 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 3 | 0.22 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 6 | 0.22 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 6 | 0.22 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 15 | 0.22 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 15 | 0.22 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 7 | 0.22 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 7 | 0.22 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 7 | 0.22 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 11 | 0.22 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 11 | 0.22 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 4 | 0.22 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 4 | 0.22 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 2 | 0.22 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 2 | 0.22 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 15 | 0.22 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 15 | 0.22 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 10 | 0.22 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 3 | 0.22 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 1 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 4 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 9 | 0.22 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 14 | 0.22 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 14 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 7 | 0.22 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 7 | 0.22 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 4 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,1108) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 9 | 0.22 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 8 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 8 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD21 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD22 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE1 | 1 | 0.22 |
| (1,1105) | 1:C:760:LEU:HD23 | 1:C:768:TYR:HE2 | 1 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 11 | 0.22 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 11 | 0.22 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 11 | 0.22 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 5 | 0.22 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 13 | 0.22 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 12 | 0.22 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 14 | 0.22 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 12 | 0.22 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 12 | 0.22 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 8 | 0.21 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 13 | 0.21 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 9 | 0.21 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 4 | 0.21 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 8 | 0.21 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 12 | 0.21 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 8 | 0.21 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 8 | 0.21 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 13 | 0.21 |
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 9 | 0.21 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 4 | 0.21 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 8 | 0.21 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 12 | 0.21 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 8 | 0.21 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 2 | 0.21 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 2 | 0.21 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 8 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 13 | 0.21 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 9 | 0.21 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 4 | 0.21 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 8 | 0.21 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 12 | 0.21 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 8 | 0.21 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 2 | 0.21 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 2 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 2 | 0.21 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 8 | 0.21 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 8 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,881) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,881) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,881) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,881) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,881) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,881) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 6 | 0.21 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 6 | 0.21 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 10 | 0.21 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 10 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 5 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 9 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 9 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 9 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 9 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 9 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 9 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 11 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 11 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 11 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 11 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 11 | 0.21 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 11 | 0.21 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 3 | 0.21 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 3 | 0.21 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 3 | 0.21 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 11 | 0.21 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 9 | 0.21 |
| (1,788) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 1 | 0.21 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 12 | 0.21 |
| (1,726) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 12 | 0.21 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,677) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,677) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,677) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.21 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 7 | 0.21 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 7 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 9 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 2 | 0.21 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 2 | 0.21 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 8 | 0.21 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 8 | 0.21 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,540) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,540) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,540) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,540) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,540) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,540) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 6 | 0.21 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 6 | 0.21 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 10 | 0.21 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 10 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 5 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 9 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 11 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 11 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 11 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 11 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 11 | 0.21 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 11 | 0.21 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 3 | 0.21 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 3 | 0.21 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 11 | 0.21 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 9 | 0.21 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 6 | 0.21 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 7 | 0.21 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 7 | 0.21 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,447) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 1 | 0.21 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 3 | 0.21 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 8 | 0.21 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 8 | 0.21 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 12 | 0.21 |
| (1,385) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 12 | 0.21 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 6 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,336) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,336) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,336) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.21 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 7 | 0.21 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 7 | 0.21 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 9 | 0.21 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 14 | 0.21 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 14 | 0.21 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 8 | 0.21 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 8 | 0.21 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 2 | 0.21 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 3 | 0.21 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 3 | 0.21 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 11 | 0.21 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 11 | 0.21 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 3 | 0.21 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 3 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 5 | 0.21 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 5 | 0.21 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 3 | 0.21 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 2 | 0.21 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.21 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.21 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 8 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 8 | 0.21 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 8 | 0.21 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 15 | 0.21 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 15 | 0.21 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 2 | 0.21 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 2 | 0.21 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 8 | 0.21 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 8 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 3 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 13 | 0.21 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 13 | 0.21 |
| (1,199) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,199) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,199) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,199) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,199) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,199) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 1 | 0.21 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 6 | 0.21 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 6 | 0.21 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 10 | 0.21 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 10 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 5 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 5 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 5 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 5 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 5 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 9 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 11 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 11 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 11 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 11 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 11 | 0.21 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 11 | 0.21 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 3 | 0.21 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 3 | 0.21 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 3 | 0.21 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 11 | 0.21 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 9 | 0.21 |
| (1,1129) | 1:C:775:LEU:H | 1:C:772:ARG:HA | 1 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 14 | 0.21 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 14 | 0.21 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD2 | 12 | 0.21 |
| (1,1067) | 1:C:748:LEU:H | 1:C:744:ARG:HD3 | 12 | 0.21 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 6 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG21 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG22 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB2 | 11 | 0.21 |
| (1,1018) | 1:C:708:VAL:HG23 | 1:C:745:SER:HB3 | 11 | 0.21 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 3 | 0.21 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 3 | 0.21 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 11 | 0.21 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 7 | 0.21 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 7 | 0.21 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 9 | 0.2 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 9 | 0.2 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 9 | 0.2 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 11 | 0.2 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 9 | 0.2 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 11 | 0.2 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 9 | 0.2 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 9 | 0.2 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 11 | 0.2 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,939) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 13 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,889) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,889) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,889) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,889) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,889) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,889) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 11 | 0.2 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 11 | 0.2 |
| (1,874) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 11 | 0.2 |
| (1,866) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 1 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 9 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 9 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 9 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 9 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 9 | 0.2 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 9 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,823) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 8 | 0.2 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 3 | 0.2 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 11 | 0.2 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.2 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.2 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 4 | 0.2 |
| (1,741) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 4 | 0.2 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,718) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,718) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,718) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 4 | 0.2 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 5 | 0.2 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,598) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 10 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,548) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,548) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,548) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,548) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,548) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,548) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 11 | 0.2 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 11 | 0.2 |
| (1,533) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 11 | 0.2 |
| (1,525) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 1 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 9 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 9 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 9 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 9 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 9 | 0.2 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 9 | 0.2 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,482) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 8 | 0.2 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 3 | 0.2 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 11 | 0.2 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.2 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 4 | 0.2 |
| (1,400) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 4 | 0.2 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,377) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,377) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,377) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 4 | 0.2 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 5 | 0.2 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 8 | 0.2 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 14 | 0.2 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 11 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 11 | 0.2 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 11 | 0.2 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 12 | 0.2 |
| (1,257) | 1:C:696:ARG:H | 1:C:696:ARG:HE | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.2 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.2 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 5 | 0.2 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 13 | 0.2 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 1 | 0.2 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 1 | 0.2 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 10 | 0.2 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 10 | 0.2 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 13 | 0.2 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 13 | 0.2 |
| (1,207) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,207) | 1:C:682:ILE:HD11 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,207) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,207) | 1:C:682:ILE:HD12 | 1:C:685:PHE:HB3 | 2 | 0.2 |
| (1,207) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB2 | 2 | 0.2 |
| (1,207) | 1:C:682:ILE:HD13 | 1:C:685:PHE:HB3 | 2 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 10 | 0.2 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 10 | 0.2 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 11 | 0.2 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 7 | 0.2 |
| (1,180) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 7 | 0.2 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 7 | 0.2 |
| (1,179) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 7 | 0.2 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG12 | 7 | 0.2 |
| (1,178) | 1:C:817:ALA:H | 1:C:830:ILE:HG13 | 7 | 0.2 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 6 | 0.2 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 6 | 0.2 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 6 | 0.2 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 6 | 0.2 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 6 | 0.2 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 6 | 0.2 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB2 | 11 | 0.2 |
| (1,1215) | 1:C:817:ALA:H | 1:C:816:ASN:HB3 | 11 | 0.2 |
| (1,1207) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 1 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 9 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 9 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 9 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 9 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 9 | 0.2 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 9 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 13 | 0.2 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 13 | 0.2 |
| (1,1164) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 8 | 0.2 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 14 | 0.2 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 3 | 0.2 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 11 | 0.2 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 15 | 0.2 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 1 | 0.2 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 9 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 6 | 0.2 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 6 | 0.2 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB2 | 4 | 0.2 |
| (1,1082) | 1:C:754:ALA:H | 1:C:750:ASN:HB3 | 4 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 2 | 0.2 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 2 | 0.2 |
| (1,1059) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,1059) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,1059) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 12 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 11 | 0.2 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 11 | 0.2 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 4 | 0.2 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 5 | 0.2 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 11 | 0.19 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 11 | 0.19 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 11 | 0.19 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 11 | 0.19 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 11 | 0.19 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 11 | 0.19 |
| (1,995) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.19 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 12 | 0.19 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 13 | 0.19 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 14 | 0.19 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,942) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,918) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,918) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,918) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 3 | 0.19 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 3 | 0.19 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 11 | 0.19 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 11 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 13 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 13 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 13 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 13 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 13 | 0.19 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 13 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 12 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 12 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 12 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 12 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 12 | 0.19 |
| (1,861) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 12 | 0.19 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 2 | 0.19 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 15 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 3 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 3 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 13 | 0.19 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 13 | 0.19 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,766) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,766) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,766) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,754) | 1:C:755:LEU:H | 1:C:756:ILE:H | 1 | 0.19 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 2 | 0.19 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,654) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.19 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 12 | 0.19 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 13 | 0.19 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 14 | 0.19 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 1 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,601) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,577) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,577) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,577) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 3 | 0.19 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 3 | 0.19 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 11 | 0.19 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 11 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 13 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 13 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 13 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 13 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 13 | 0.19 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 13 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 12 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 12 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 12 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 12 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 12 | 0.19 |
| (1,520) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 12 | 0.19 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 2 | 0.19 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 15 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 3 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 3 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 13 | 0.19 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 13 | 0.19 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 5 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 5 | 0.19 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 11 | 0.19 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 11 | 0.19 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 15 | 0.19 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 15 | 0.19 |
| (1,425) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,425) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,425) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,413) | 1:C:755:LEU:H | 1:C:756:ILE:H | 1 | 0.19 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 2 | 0.19 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,313) | 1:C:706:ASN:H | 1:C:703:SER:HA | 2 | 0.19 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 12 | 0.19 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 13 | 0.19 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 14 | 0.19 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 6 | 0.19 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 6 | 0.19 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG21 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB1 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG22 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB1 | 1 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB2 | 1 | 0.19 |
| (1,260) | 1:C:697:ILE:HG23 | 1:C:700:ALA:HB3 | 1 | 0.19 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 9 | 0.19 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 14 | 0.19 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 14 | 0.19 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 6 | 0.19 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 13 | 0.19 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 13 | 0.19 |
| (1,236) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,236) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,236) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 15 | 0.19 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 4 | 0.19 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 4 | 0.19 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 8 | 0.19 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 6 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 6 | 0.19 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 6 | 0.19 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 14 | 0.19 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 14 | 0.19 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 14 | 0.19 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 14 | 0.19 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 14 | 0.19 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 14 | 0.19 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 2 | 0.19 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 4 | 0.19 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 2 | 0.19 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 4 | 0.19 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 2 | 0.19 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 4 | 0.19 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 10 | 0.19 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 3 | 0.19 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 3 | 0.19 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 11 | 0.19 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 11 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 13 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 13 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 13 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 13 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 13 | 0.19 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 13 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD11 | 12 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD12 | 12 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD13 | 12 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD21 | 12 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD22 | 12 | 0.19 |
| (1,1202) | 1:C:790:TRP:HE1 | 1:C:793:LEU:HD23 | 12 | 0.19 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 2 | 0.19 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 15 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 3 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 3 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 10 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 10 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 13 | 0.19 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 13 | 0.19 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 9 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 9 | 0.19 |
| (1,1107) | 1:C:763:LEU:HD11 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,1107) | 1:C:763:LEU:HD12 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,1107) | 1:C:763:LEU:HD13 | 1:C:759:ASP:HA | 14 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 4 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 6 | 0.19 |
| (1,1095) | 1:C:755:LEU:H | 1:C:756:ILE:H | 1 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 4 | 0.19 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 4 | 0.19 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 2 | 0.19 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 5 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 6 | 0.19 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 6 | 0.19 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 9 | 0.18 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 3 | 0.18 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 4 | 0.18 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 5 | 0.18 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 9 | 0.18 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 12 | 0.18 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 13 | 0.18 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 7 | 0.18 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.18 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 4 | 0.18 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 3 | 0.18 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 4 | 0.18 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 5 | 0.18 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 12 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 13 | 0.18 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 7 | 0.18 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.18 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 4 | 0.18 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 9 | 0.18 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 3 | 0.18 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 4 | 0.18 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 5 | 0.18 |
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 12 | 0.18 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 13 | 0.18 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 7 | 0.18 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 13 | 0.18 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 4 | 0.18 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 13 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 1 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 2 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 4 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 8 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 9 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 10 | 0.18 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 11 | 0.18 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,899) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,899) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,899) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 3 | 0.18 |
| (1,890) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 3 | 0.18 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 6 | 0.18 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 10 | 0.18 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 1 | 0.18 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 1 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 11 | 0.18 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 1 | 0.18 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 4 | 0.18 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 12 | 0.18 |
| (1,807) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 6 | 0.18 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 3 | 0.18 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 3 | 0.18 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 3 | 0.18 |
| (1,748) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,748) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,748) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 2 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 13 | 0.18 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 13 | 0.18 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 13 | 0.18 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 13 | 0.18 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 13 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 1 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 2 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 4 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 8 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 9 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 10 | 0.18 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 11 | 0.18 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 10 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,558) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,558) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,558) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 3 | 0.18 |
| (1,549) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 3 | 0.18 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 6 | 0.18 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 10 | 0.18 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 1 | 0.18 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 1 | 0.18 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 11 | 0.18 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 1 | 0.18 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 4 | 0.18 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 12 | 0.18 |
| (1,466) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 6 | 0.18 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 5 | 0.18 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 5 | 0.18 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 14 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 3 | 0.18 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 3 | 0.18 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 3 | 0.18 |
| (1,407) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,407) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,407) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 13 | 0.18 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 13 | 0.18 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 13 | 0.18 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 9 | 0.18 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 9 | 0.18 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 9 | 0.18 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 13 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 1 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 2 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 4 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 8 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 9 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 10 | 0.18 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 11 | 0.18 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 10 | 0.18 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 10 | 0.18 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 10 | 0.18 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 5 | 0.18 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 15 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 15 | 0.18 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 15 | 0.18 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 3 | 0.18 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 3 | 0.18 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 1 | 0.18 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,217) | 1:C:684:ILE:HG21 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,217) | 1:C:684:ILE:HG22 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD2 | 13 | 0.18 |
| (1,217) | 1:C:684:ILE:HG23 | 1:C:683:ARG:HD3 | 13 | 0.18 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HE3 | 3 | 0.18 |
| (1,208) | 1:C:683:ARG:HE | 1:C:680:TRP:HZ3 | 3 | 0.18 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 6 | 0.18 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 10 | 0.18 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 1 | 0.18 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 1 | 0.18 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 1 | 0.18 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 1 | 0.18 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 1 | 0.18 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 1 | 0.18 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 5 | 0.18 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 5 | 0.18 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 5 | 0.18 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 5 | 0.18 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 5 | 0.18 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 5 | 0.18 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 13 | 0.18 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 13 | 0.18 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 13 | 0.18 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 13 | 0.18 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 13 | 0.18 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 6 | 0.18 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 6 | 0.18 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 6 | 0.18 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 1 | 0.18 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 1 | 0.18 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 11 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 9 | 0.18 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 1 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 12 | 0.18 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 12 | 0.18 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 4 | 0.18 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 12 | 0.18 |
| (1,1148) | 1:C:778:VAL:H | 1:C:775:LEU:HA | 6 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 14 | 0.18 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 14 | 0.18 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 3 | 0.18 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 3 | 0.18 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 3 | 0.18 |
| (1,1089) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,1089) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,1089) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 3 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 1 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 1 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 1 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 5 | 0.18 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 5 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 2 | 0.18 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 2 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 9 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 12 | 0.18 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 12 | 0.18 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 13 | 0.18 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 13 | 0.18 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 13 | 0.18 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 13 | 0.18 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 2 | 0.17 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 4 | 0.17 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 2 | 0.17 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 4 | 0.17 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 9 | 0.17 |
| (2,23) | 1:B:801:GLN:O | 1:B:805:GLN:H | 1 | 0.17 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 7 | 0.17 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 9 | 0.17 |
| (2,195) | 1:B:801:GLN:O | 1:B:805:GLN:H | 1 | 0.17 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 7 | 0.17 |
| (2,191) | 1:B:799:LEU:O | 1:B:803:TRP:H | 12 | 0.17 |
| (2,19) | 1:B:799:LEU:O | 1:B:803:TRP:H | 12 | 0.17 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 2 | 0.17 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 4 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 9 | 0.17 |
| (2,109) | 1:B:801:GLN:O | 1:B:805:GLN:H | 1 | 0.17 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 7 | 0.17 |
| (2,105) | 1:B:799:LEU:O | 1:B:803:TRP:H | 12 | 0.17 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,955) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,955) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,955) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 3 | 0.17 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 5 | 0.17 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 6 | 0.17 |
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 3 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,905) | 1:C:686:ILE:HD11 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,905) | 1:C:686:ILE:HD12 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,905) | 1:C:686:ILE:HD13 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,902) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,902) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,902) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,883) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 2 | 0.17 |
| (1,879) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 2 | 0.17 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 13 | 0.17 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 13 | 0.17 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 14 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 14 | 0.17 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 14 | 0.17 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 14 | 0.17 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 14 | 0.17 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 14 | 0.17 |
| (1,866) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 8 | 0.17 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 8 | 0.17 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 8 | 0.17 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 8 | 0.17 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 13 | 0.17 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 5 | 0.17 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 1 | 0.17 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 1 | 0.17 |
| (1,823) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 10 | 0.17 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 8 | 0.17 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 8 | 0.17 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,754) | 1:C:755:LEU:H | 1:C:756:ILE:H | 12 | 0.17 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,712) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 9 | 0.17 |
| (1,712) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 12 | 0.17 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 8 | 0.17 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 8 | 0.17 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 6 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,614) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,614) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,614) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 3 | 0.17 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 5 | 0.17 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 6 | 0.17 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 11 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,564) | 1:C:686:ILE:HD11 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,564) | 1:C:686:ILE:HD12 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,564) | 1:C:686:ILE:HD13 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,561) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,561) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,561) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,542) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 2 | 0.17 |
| (1,538) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 2 | 0.17 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 13 | 0.17 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 13 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 14 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 14 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 14 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 14 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 14 | 0.17 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 14 | 0.17 |
| (1,525) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 8 | 0.17 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 8 | 0.17 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 8 | 0.17 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 13 | 0.17 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 5 | 0.17 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 1 | 0.17 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 1 | 0.17 |
| (1,482) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 10 | 0.17 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 8 | 0.17 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 8 | 0.17 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,413) | 1:C:755:LEU:H | 1:C:756:ILE:H | 12 | 0.17 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 1 | 0.17 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 1 | 0.17 |
| (1,39) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 1 | 0.17 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 1 | 0.17 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 1 | 0.17 |
| (1,38) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 1 | 0.17 |
| (1,371) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 9 | 0.17 |
| (1,371) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 12 | 0.17 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD11 | 1 | 0.17 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD12 | 1 | 0.17 |
| (1,37) | 1:C:696:ARG:H | 1:C:693:ILE:HD13 | 1 | 0.17 |
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 8 | 0.17 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 6 | 0.17 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 6 | 0.17 |
| (1,273) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,273) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,273) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 1 | 0.17 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 3 | 0.17 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 5 | 0.17 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 6 | 0.17 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 10 | 0.17 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 8 | 0.17 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 12 | 0.17 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 12 | 0.17 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 3 | 0.17 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 3 | 0.17 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 12 | 0.17 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 11 | 0.17 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 15 | 0.17 |
| (1,223) | 1:C:686:ILE:HD11 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,223) | 1:C:686:ILE:HD12 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,223) | 1:C:686:ILE:HD13 | 1:C:683:ARG:HA | 14 | 0.17 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 1 | 0.17 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,220) | 1:C:684:ILE:HG21 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,220) | 1:C:684:ILE:HG22 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD1 | 7 | 0.17 |
| (1,220) | 1:C:684:ILE:HG23 | 1:C:685:PHE:HD2 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,201) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 7 | 0.17 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 3 | 0.17 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 7 | 0.17 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 7 | 0.17 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 7 | 0.17 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 7 | 0.17 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 7 | 0.17 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 7 | 0.17 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD2 | 2 | 0.17 |
| (1,1220) | 1:C:839:ALA:H | 1:C:838:ARG:HD3 | 2 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 13 | 0.17 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 13 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 14 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 14 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 14 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 14 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 14 | 0.17 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 14 | 0.17 |
| (1,1207) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 8 | 0.17 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 8 | 0.17 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 8 | 0.17 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 8 | 0.17 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 13 | 0.17 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 5 | 0.17 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 1 | 0.17 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 1 | 0.17 |
| (1,1164) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 10 | 0.17 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 8 | 0.17 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 8 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 2 | 0.17 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 2 | 0.17 |
| (1,1095) | 1:C:755:LEU:H | 1:C:756:ILE:H | 12 | 0.17 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 6 | 0.17 |
| (1,1053) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 9 | 0.17 |
| (1,1053) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 12 | 0.17 |
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 13 | 0.17 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 13 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 5 | 0.17 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 5 | 0.17 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 8 | 0.17 |
| (2,97) | 1:B:795:TYR:O | 1:B:799:LEU:H | 10 | 0.16 |
| (2,95) | 1:B:794:LYS:O | 1:B:798:ASN:H | 8 | 0.16 |
| (2,9) | 1:B:794:LYS:O | 1:B:798:ASN:H | 8 | 0.16 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.16 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 3 | 0.16 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 15 | 0.16 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.16 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 3 | 0.16 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 15 | 0.16 |
| (2,183) | 1:B:795:TYR:O | 1:B:799:LEU:H | 10 | 0.16 |
| (2,181) | 1:B:794:LYS:O | 1:B:798:ASN:H | 8 | 0.16 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 15 | 0.16 |
| (2,11) | 1:B:795:TYR:O | 1:B:799:LEU:H | 10 | 0.16 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 3 | 0.16 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 15 | 0.16 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,967) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,967) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,967) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,962) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,951) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,932) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,932) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 13 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,932) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 7 | 0.16 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 7 | 0.16 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 12 | 0.16 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 12 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 1 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 1 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 1 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 1 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 1 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 1 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 10 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 10 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 10 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 10 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 10 | 0.16 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 10 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 3 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 3 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 3 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 11 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 11 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 11 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 15 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 15 | 0.16 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 15 | 0.16 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 14 | 0.16 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 8 | 0.16 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 8 | 0.16 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 10 | 0.16 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,828) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,828) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,828) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 13 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 1 | 0.16 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 1 | 0.16 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 11 | 0.16 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 11 | 0.16 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 9 | 0.16 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,768) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,768) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,768) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 1 | 0.16 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 13 | 0.16 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 14 | 0.16 |
| (1,660) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 14 | 0.16 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,626) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,626) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,626) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,621) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,610) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 4 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,591) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,591) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,591) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 14 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 7 | 0.16 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 7 | 0.16 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 12 | 0.16 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 12 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 1 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 10 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 10 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 10 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 10 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 10 | 0.16 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 10 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 3 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 3 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 3 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 11 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 11 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 11 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 15 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 15 | 0.16 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 15 | 0.16 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 14 | 0.16 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 8 | 0.16 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 10 | 0.16 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,487) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,487) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,487) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 8 | 0.16 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 8 | 0.16 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 11 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 1 | 0.16 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 1 | 0.16 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 11 | 0.16 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 6 | 0.16 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 11 | 0.16 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 11 | 0.16 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 9 | 0.16 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,427) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,427) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,427) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 1 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 1 | 0.16 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 13 | 0.16 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 14 | 0.16 |
| (1,319) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 14 | 0.16 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,285) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,285) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB2 | 10 | 0.16 |
| (1,285) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HB3 | 10 | 0.16 |
| (1,280) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 7 | 0.16 |
| (1,269) | 1:C:700:ALA:H | 1:C:699:PHE:HA | 15 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 4 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 7 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,250) | 1:C:695:LEU:HD21 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,250) | 1:C:695:LEU:HD22 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD2 | 13 | 0.16 |
| (1,250) | 1:C:695:LEU:HD23 | 1:C:696:ARG:HD3 | 13 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 5 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 5 | 0.16 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 5 | 0.16 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 5 | 0.16 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 7 | 0.16 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 15 | 0.16 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 12 | 0.16 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 14 | 0.16 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 14 | 0.16 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 13 | 0.16 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 11 | 0.16 |
| (1,189) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 11 | 0.16 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 11 | 0.16 |
| (1,188) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 11 | 0.16 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG12 | 11 | 0.16 |
| (1,187) | 1:C:827:ASP:H | 1:C:820:ILE:HG13 | 11 | 0.16 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 5 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 5 | 0.16 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.16 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.16 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 5 | 0.16 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 5 | 0.16 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.16 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.16 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 5 | 0.16 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 5 | 0.16 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 9 | 0.16 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 9 | 0.16 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 9 | 0.16 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 15 | 0.16 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 9 | 0.16 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 15 | 0.16 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 9 | 0.16 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 15 | 0.16 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 10 | 0.16 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 10 | 0.16 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 12 | 0.16 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 12 | 0.16 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 10 | 0.16 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 10 | 0.16 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 12 | 0.16 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 12 | 0.16 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 10 | 0.16 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 10 | 0.16 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 12 | 0.16 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 12 | 0.16 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 7 | 0.16 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 7 | 0.16 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 12 | 0.16 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 12 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 1 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 10 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 10 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 10 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 10 | 0.16 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 10 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 3 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 3 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 3 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 6 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 6 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 6 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 11 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 11 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 11 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 15 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 15 | 0.16 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 15 | 0.16 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 14 | 0.16 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 14 | 0.16 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 8 | 0.16 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 8 | 0.16 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 10 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 7 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG21 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG22 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,1169) | 1:C:781:ILE:HG23 | 1:C:778:VAL:HA | 12 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 13 | 0.16 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 13 | 0.16 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 1 | 0.16 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 1 | 0.16 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 11 | 0.16 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 11 | 0.16 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 9 | 0.16 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,1109) | 1:C:763:LEU:HD21 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE1 | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1109) | 1:C:763:LEU:HD22 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE1 | 8 | 0.16 |
| (1,1109) | 1:C:763:LEU:HD23 | 1:C:768:TYR:HE2 | 8 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 1 | 0.16 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 1 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 9 | 0.16 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 9 | 0.16 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 1 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 2 | 0.16 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 13 | 0.16 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB2 | 14 | 0.16 |
| (1,1001) | 1:C:707:ARG:H | 1:C:703:SER:HB3 | 14 | 0.16 |
| (2,97) | 1:B:795:TYR:O | 1:B:799:LEU:H | 13 | 0.15 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 2 | 0.15 |
| (2,92) | 1:B:792:ALA:O | 1:B:796:TRP:N | 4 | 0.15 |
| (2,61) | 1:B:830:ILE:O | 1:B:834:GLN:H | 7 | 0.15 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 2 | 0.15 |
| (2,6) | 1:B:792:ALA:O | 1:B:796:TRP:N | 4 | 0.15 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 11 | 0.15 |
| (2,233) | 1:B:830:ILE:O | 1:B:834:GLN:H | 7 | 0.15 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 5 | 0.15 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 11 | 0.15 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 5 | 0.15 |
| (2,183) | 1:B:795:TYR:O | 1:B:799:LEU:H | 13 | 0.15 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 2 | 0.15 |
| (2,178) | 1:B:792:ALA:O | 1:B:796:TRP:N | 4 | 0.15 |
| (2,147) | 1:B:830:ILE:O | 1:B:834:GLN:H | 7 | 0.15 |
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 11 | 0.15 |
| (2,11) | 1:B:795:TYR:O | 1:B:799:LEU:H | 13 | 0.15 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 5 | 0.15 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,994) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 12 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,994) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,994) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,984) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 3 | 0.15 |
| (1,968) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,968) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,968) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,968) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,968) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,968) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,946) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,927) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,927) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,927) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 14 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,904) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,904) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,904) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 4 | 0.15 |
| (1,878) | 1:C:835:GLY:H | 1:C:834:GLN:HE21 | 2 | 0.15 |
| (1,878) | 1:C:835:GLY:H | 1:C:834:GLN:HE22 | 2 | 0.15 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 5 | 0.15 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 5 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 9 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 9 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 9 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 9 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 9 | 0.15 |
| (1,872) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 9 | 0.15 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 13 | 0.15 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,762) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,730) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 4 | 0.15 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 2 | 0.15 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 12 | 0.15 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 12 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,712) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 1 | 0.15 |
| (1,686) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 8 | 0.15 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 10 | 0.15 |
| (1,668) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 10 | 0.15 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,653) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,653) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,653) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,643) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 3 | 0.15 |
| (1,627) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,627) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,627) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,627) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,627) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,627) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,605) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,586) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,586) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,586) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,563) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,563) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,563) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 4 | 0.15 |
| (1,537) | 1:C:835:GLY:H | 1:C:834:GLN:HE21 | 2 | 0.15 |
| (1,537) | 1:C:835:GLY:H | 1:C:834:GLN:HE22 | 2 | 0.15 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 5 | 0.15 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 5 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 9 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 9 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 9 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 9 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 9 | 0.15 |
| (1,531) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 9 | 0.15 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 13 | 0.15 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 15 | 0.15 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 15 | 0.15 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,421) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,389) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 4 | 0.15 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 2 | 0.15 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 12 | 0.15 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 12 | 0.15 |
| (1,371) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 1 | 0.15 |
| (1,345) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 8 | 0.15 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 10 | 0.15 |
| (1,327) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 10 | 0.15 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,312) | 1:C:705:VAL:HG21 | 1:C:706:ASN:HB3 | 12 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,312) | 1:C:705:VAL:HG22 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB2 | 12 | 0.15 |
| (1,312) | 1:C:705:VAL:HG23 | 1:C:706:ASN:HB3 | 12 | 0.15 |
| (1,302) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 3 | 0.15 |
| (1,286) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,286) | 1:C:702:LEU:HD21 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,286) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,286) | 1:C:702:LEU:HD22 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,286) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD21 | 2 | 0.15 |
| (1,286) | 1:C:702:LEU:HD23 | 1:C:706:ASN:HD22 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG11 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG12 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB2 | 2 | 0.15 |
| (1,264) | 1:C:698:VAL:HG13 | 1:C:702:LEU:HB3 | 2 | 0.15 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 15 | 0.15 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 11 | 0.15 |
| (1,245) | 1:C:693:ILE:HG21 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,245) | 1:C:693:ILE:HG22 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,245) | 1:C:693:ILE:HG23 | 1:C:694:GLY:H | 15 | 0.15 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 3 | 0.15 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 3 | 0.15 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 1 | 0.15 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 3 | 0.15 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 9 | 0.15 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 14 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 14 | 0.15 |
| (1,222) | 1:C:684:ILE:HG21 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,222) | 1:C:684:ILE:HG22 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,222) | 1:C:684:ILE:HG23 | 1:C:688:ILE:H | 13 | 0.15 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 7 | 0.15 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 7 | 0.15 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 4 | 0.15 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 1 | 0.15 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 1 | 0.15 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 1 | 0.15 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 1 | 0.15 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 1 | 0.15 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 1 | 0.15 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 1 | 0.15 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 1 | 0.15 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 1 | 0.15 |
| (1,1219) | 1:C:835:GLY:H | 1:C:834:GLN:HE21 | 2 | 0.15 |
| (1,1219) | 1:C:835:GLY:H | 1:C:834:GLN:HE22 | 2 | 0.15 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 5 | 0.15 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 5 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD11 | 9 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD12 | 9 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD13 | 9 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD21 | 9 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD22 | 9 | 0.15 |
| (1,1213) | 1:C:803:TRP:HE1 | 1:C:800:LEU:HD23 | 9 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 3 | 0.15 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 3 | 0.15 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 13 | 0.15 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 9 | 0.15 |
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG12 | 9 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1103) | 1:C:760:LEU:HD11 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,1103) | 1:C:760:LEU:HD12 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG12 | 9 | 0.15 |
| (1,1103) | 1:C:760:LEU:HD13 | 1:C:756:ILE:HG13 | 9 | 0.15 |
| (1,1071) | 1:C:749:VAL:H | 1:C:746:ILE:HA | 4 | 0.15 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 2 | 0.15 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 12 | 0.15 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 12 | 0.15 |
| (1,1053) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 1 | 0.15 |
| (1,1027) | 1:C:710:GLN:H | 1:C:708:VAL:HA | 8 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 15 | 0.15 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 15 | 0.15 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD2 | 10 | 0.15 |
| (1,1009) | 1:C:707:ARG:H | 1:C:707:ARG:HD3 | 10 | 0.15 |
| (2,88) | 1:B:790:TRP:O | 1:B:794:LYS:N | 6 | 0.14 |
| (2,67) | 1:B:833:VAL:O | 1:B:837:SER:H | 7 | 0.14 |
| (2,61) | 1:B:830:ILE:O | 1:B:834:GLN:H | 1 | 0.14 |
| (2,61) | 1:B:830:ILE:O | 1:B:834:GLN:H | 13 | 0.14 |
| (2,239) | 1:B:833:VAL:O | 1:B:837:SER:H | 7 | 0.14 |
| (2,233) | 1:B:830:ILE:O | 1:B:834:GLN:H | 1 | 0.14 |
| (2,233) | 1:B:830:ILE:O | 1:B:834:GLN:H | 13 | 0.14 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 6 | 0.14 |
| (2,2) | 1:B:790:TRP:O | 1:B:794:LYS:N | 6 | 0.14 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 6 | 0.14 |
| (2,174) | 1:B:790:TRP:O | 1:B:794:LYS:N | 6 | 0.14 |
| (2,153) | 1:B:833:VAL:O | 1:B:837:SER:H | 7 | 0.14 |
| (2,147) | 1:B:830:ILE:O | 1:B:834:GLN:H | 1 | 0.14 |
| (2,147) | 1:B:830:ILE:O | 1:B:834:GLN:H | 13 | 0.14 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 6 | 0.14 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,984) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 7 | 0.14 |
| (1,957) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,933) | 1:C:695:LEU:HD21 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,933) | 1:C:695:LEU:HD22 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,933) | 1:C:695:LEU:HD23 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,921) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,918) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,918) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,918) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 8 | 0.14 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 9 | 0.14 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 12 | 0.14 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 14 | 0.14 |
| (1,881) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,881) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,881) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,881) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,881) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,881) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 8 | 0.14 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 8 | 0.14 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 14 | 0.14 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 14 | 0.14 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 1 | 0.14 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 1 | 0.14 |
| (1,875) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 1 | 0.14 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 11 | 0.14 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 11 | 0.14 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,794) | 1:C:776:LEU:H | 1:C:773:ASP:HA | 7 | 0.14 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.14 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.14 |
| (1,750) | 1:C:755:LEU:H | 1:C:752:SER:HA | 10 | 0.14 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,643) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 7 | 0.14 |
| (1,616) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.14 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,592) | 1:C:695:LEU:HD21 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,592) | 1:C:695:LEU:HD22 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,592) | 1:C:695:LEU:HD23 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,580) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,577) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,577) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,577) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 8 | 0.14 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 9 | 0.14 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 12 | 0.14 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 14 | 0.14 |
| (1,540) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,540) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,540) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,540) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,540) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,540) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 8 | 0.14 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 8 | 0.14 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 14 | 0.14 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 14 | 0.14 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 1 | 0.14 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 1 | 0.14 |
| (1,534) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 1 | 0.14 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 11 | 0.14 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 11 | 0.14 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,453) | 1:C:776:LEU:H | 1:C:773:ASP:HA | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,45) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,45) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,45) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,44) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.14 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.14 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,43) | 1:C:700:ALA:HB1 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,43) | 1:C:700:ALA:HB2 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD1 | 12 | 0.14 |
| (1,43) | 1:C:700:ALA:HB3 | 1:C:699:PHE:HD2 | 12 | 0.14 |
| (1,409) | 1:C:755:LEU:H | 1:C:752:SER:HA | 10 | 0.14 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 4 | 0.14 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 4 | 0.14 |
| (1,302) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 7 | 0.14 |
| (1,275) | 1:C:701:VAL:H | 1:C:698:VAL:HA | 14 | 0.14 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 5 | 0.14 |
| (1,251) | 1:C:695:LEU:HD21 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,251) | 1:C:695:LEU:HD22 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,251) | 1:C:695:LEU:HD23 | 1:C:698:VAL:HB | 1 | 0.14 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 8 | 0.14 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 14 | 0.14 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 14 | 0.14 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 7 | 0.14 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 7 | 0.14 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD11 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD12 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH11 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH12 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH21 | 11 | 0.14 |
| (1,239) | 1:C:692:LEU:HD13 | 1:C:696:ARG:HH22 | 11 | 0.14 |
| (1,236) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,236) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,236) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 12 | 0.14 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 12 | 0.14 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 2 | 0.14 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 2 | 0.14 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 8 | 0.14 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 9 | 0.14 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 12 | 0.14 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 14 | 0.14 |
| (1,199) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,199) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,199) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,199) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,199) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,199) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 2 | 0.14 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 13 | 0.14 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 13 | 0.14 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 13 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 13 | 0.14 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 13 | 0.14 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 13 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 4 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 4 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 6 | 0.14 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 6 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 4 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 4 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 6 | 0.14 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 6 | 0.14 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 4 | 0.14 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 4 | 0.14 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 6 | 0.14 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 6 | 0.14 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 13 | 0.14 |
| (1,144) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 13 | 0.14 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 13 | 0.14 |
| (1,143) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 13 | 0.14 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG12 | 13 | 0.14 |
| (1,142) | 1:C:794:LYS:H | 1:C:847:ILE:HG13 | 13 | 0.14 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 8 | 0.14 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 8 | 0.14 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 14 | 0.14 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 14 | 0.14 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD11 | 1 | 0.14 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD12 | 1 | 0.14 |
| (1,1216) | 1:C:819:ALA:H | 1:C:820:ILE:HD13 | 1 | 0.14 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 11 | 0.14 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 11 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 10 | 0.14 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 10 | 0.14 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 11 | 0.14 |
| (1,1135) | 1:C:776:LEU:H | 1:C:773:ASP:HA | 7 | 0.14 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 4 | 0.14 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1091) | 1:C:755:LEU:H | 1:C:752:SER:HA | 10 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 7 | 0.14 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 7 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 4 | 0.14 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 4 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 1 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 3 | 0.14 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 7 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 15 | 0.14 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 15 | 0.14 |
| (2,96) | 1:B:794:LYS:O | 1:B:798:ASN:N | 8 | 0.13 |
| (2,95) | 1:B:794:LYS:O | 1:B:798:ASN:H | 15 | 0.13 |
| (2,9) | 1:B:794:LYS:O | 1:B:798:ASN:H | 15 | 0.13 |
| (2,67) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.13 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 4 | 0.13 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 6 | 0.13 |
| (2,49) | 1:B:814:LEU:O | 1:B:818:THR:H | 3 | 0.13 |
| (2,26) | 1:B:802:TYR:O | 1:B:806:GLU:N | 8 | 0.13 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 11 | 0.13 |
| (2,25) | 1:B:802:TYR:O | 1:B:806:GLU:H | 15 | 0.13 |
| (2,24) | 1:B:801:GLN:O | 1:B:805:GLN:N | 6 | 0.13 |
| (2,239) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.13 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 4 | 0.13 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 6 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,221) | 1:B:814:LEU:O | 1:B:818:THR:H | 3 | 0.13 |
| (2,21) | 1:B:800:LEU:O | 1:B:804:SER:H | 12 | 0.13 |
| (2,20) | 1:B:799:LEU:O | 1:B:803:TRP:N | 2 | 0.13 |
| (2,198) | 1:B:802:TYR:O | 1:B:806:GLU:N | 8 | 0.13 |
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 11 | 0.13 |
| (2,197) | 1:B:802:TYR:O | 1:B:806:GLU:H | 15 | 0.13 |
| (2,196) | 1:B:801:GLN:O | 1:B:805:GLN:N | 6 | 0.13 |
| (2,193) | 1:B:800:LEU:O | 1:B:804:SER:H | 12 | 0.13 |
| (2,192) | 1:B:799:LEU:O | 1:B:803:TRP:N | 2 | 0.13 |
| (2,189) | 1:B:798:ASN:O | 1:B:802:TYR:H | 10 | 0.13 |
| (2,182) | 1:B:794:LYS:O | 1:B:798:ASN:N | 8 | 0.13 |
| (2,181) | 1:B:794:LYS:O | 1:B:798:ASN:H | 15 | 0.13 |
| (2,17) | 1:B:798:ASN:O | 1:B:802:TYR:H | 10 | 0.13 |
| (2,153) | 1:B:833:VAL:O | 1:B:837:SER:H | 4 | 0.13 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 4 | 0.13 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 6 | 0.13 |
| (2,135) | 1:B:814:LEU:O | 1:B:818:THR:H | 3 | 0.13 |
| (2,112) | 1:B:802:TYR:O | 1:B:806:GLU:N | 8 | 0.13 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 11 | 0.13 |
| (2,111) | 1:B:802:TYR:O | 1:B:806:GLU:H | 15 | 0.13 |
| (2,110) | 1:B:801:GLN:O | 1:B:805:GLN:N | 6 | 0.13 |
| (2,107) | 1:B:800:LEU:O | 1:B:804:SER:H | 12 | 0.13 |
| (2,106) | 1:B:799:LEU:O | 1:B:803:TRP:N | 2 | 0.13 |
| (2,103) | 1:B:798:ASN:O | 1:B:802:TYR:H | 10 | 0.13 |
| (2,10) | 1:B:794:LYS:O | 1:B:798:ASN:N | 8 | 0.13 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,991) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,991) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,991) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,981) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,981) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,981) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,962) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 1 | 0.13 |
| (1,962) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 10 | 0.13 |
| (1,955) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,955) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,955) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,929) | 1:C:695:LEU:H | 1:C:691:SER:HA | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,923) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.13 |
| (1,883) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,883) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,883) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,883) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,883) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,883) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,883) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 5 | 0.13 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 5 | 0.13 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 7 | 0.13 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 7 | 0.13 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.13 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.13 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.13 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.13 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.13 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 4 | 0.13 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 4 | 0.13 |
| (1,865) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 4 | 0.13 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 1 | 0.13 |
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 6 | 0.13 |
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 12 | 0.13 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 3 | 0.13 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 15 | 0.13 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 15 | 0.13 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 6 | 0.13 |
| (1,829) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.13 |
| (1,812) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,812) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,812) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 6 | 0.13 |
| (1,779) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 6 | 0.13 |
| (1,770) | 1:C:764:SER:H | 1:C:761:ARG:HA | 10 | 0.13 |
| (1,760) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 9 | 0.13 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,719) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,719) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,719) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,719) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,719) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,719) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,718) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,718) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,718) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,717) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,717) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,717) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,712) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 7 | 0.13 |
| (1,670) | 1:C:708:VAL:H | 1:C:705:VAL:HA | 12 | 0.13 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,650) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,650) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,650) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,640) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,640) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,640) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,621) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 1 | 0.13 |
| (1,621) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 10 | 0.13 |
| (1,614) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,614) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,614) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,588) | 1:C:695:LEU:H | 1:C:691:SER:HA | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,582) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.13 |
| (1,542) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,542) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,542) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,542) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,542) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,542) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,542) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 5 | 0.13 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 5 | 0.13 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 7 | 0.13 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 7 | 0.13 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.13 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.13 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.13 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.13 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.13 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 4 | 0.13 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 4 | 0.13 |
| (1,524) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 4 | 0.13 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 1 | 0.13 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 6 | 0.13 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 12 | 0.13 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 3 | 0.13 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 15 | 0.13 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 15 | 0.13 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 6 | 0.13 |
| (1,488) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.13 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,48) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,48) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,48) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,471) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,471) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,471) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,47) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,47) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,47) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB1 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB2 | 1:C:702:LEU:HB3 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB2 | 3 | 0.13 |
| (1,46) | 1:C:700:ALA:HB3 | 1:C:702:LEU:HB3 | 3 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 6 | 0.13 |
| (1,438) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 6 | 0.13 |
| (1,429) | 1:C:764:SER:H | 1:C:761:ARG:HA | 10 | 0.13 |
| (1,419) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 9 | 0.13 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,378) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,378) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,378) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,378) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,378) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,378) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,377) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,377) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,377) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,376) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,376) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,376) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,371) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 7 | 0.13 |
| (1,329) | 1:C:708:VAL:H | 1:C:705:VAL:HA | 12 | 0.13 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,309) | 1:C:705:VAL:HG11 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD2 | 1 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,309) | 1:C:705:VAL:HG12 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD2 | 1 | 0.13 |
| (1,309) | 1:C:705:VAL:HG13 | 1:C:709:ARG:HD3 | 1 | 0.13 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,299) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,299) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD2 | 12 | 0.13 |
| (1,299) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HD3 | 12 | 0.13 |
| (1,280) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 1 | 0.13 |
| (1,280) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 10 | 0.13 |
| (1,273) | 1:C:700:ALA:HB1 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,273) | 1:C:700:ALA:HB2 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,273) | 1:C:700:ALA:HB3 | 1:C:697:ILE:HA | 7 | 0.13 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 11 | 0.13 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 11 | 0.13 |
| (1,247) | 1:C:695:LEU:H | 1:C:691:SER:HA | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 6 | 0.13 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD11 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD12 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA2 | 7 | 0.13 |
| (1,241) | 1:C:693:ILE:HD13 | 1:C:694:GLY:HA3 | 7 | 0.13 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 8 | 0.13 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 15 | 0.13 |
| (1,201) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 2 | 0.13 |
| (1,201) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,201) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,201) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,201) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,201) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,201) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HZ3 | 8 | 0.13 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 4 | 0.13 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 4 | 0.13 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 4 | 0.13 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 4 | 0.13 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 4 | 0.13 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 4 | 0.13 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 15 | 0.13 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 15 | 0.13 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 15 | 0.13 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 15 | 0.13 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 15 | 0.13 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 15 | 0.13 |
| (1,153) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 12 | 0.13 |
| (1,152) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 12 | 0.13 |
| (1,151) | 1:C:797:TRP:HE1 | 1:C:848:ARG:H | 12 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD11 | 7 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD12 | 7 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD13 | 7 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD21 | 7 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD22 | 7 | 0.13 |
| (1,135) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD23 | 7 | 0.13 |
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD11 | 7 | 0.13 |
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD12 | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD13 | 7 | 0.13 |
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD21 | 7 | 0.13 |
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD22 | 7 | 0.13 |
| (1,134) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD23 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD11 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD12 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD13 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD21 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD22 | 7 | 0.13 |
| (1,133) | 1:C:790:TRP:HE1 | 1:C:851:LEU:HD23 | 7 | 0.13 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 5 | 0.13 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 5 | 0.13 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 7 | 0.13 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 7 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 11 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 11 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 11 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 11 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 11 | 0.13 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 11 | 0.13 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD21 | 4 | 0.13 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD22 | 4 | 0.13 |
| (1,1206) | 1:C:796:TRP:HE1 | 1:C:799:LEU:HD23 | 4 | 0.13 |
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 1 | 0.13 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 6 | 0.13 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 12 | 0.13 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 11 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 6 | 0.13 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 6 | 0.13 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 3 | 0.13 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 15 | 0.13 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 15 | 0.13 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 6 | 0.13 |
| (1,1170) | 1:C:782:VAL:H | 1:C:779:THR:HA | 11 | 0.13 |
| (1,1153) | 1:C:778:VAL:HG21 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,1153) | 1:C:778:VAL:HG22 | 1:C:775:LEU:HA | 5 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1153) | 1:C:778:VAL:HG23 | 1:C:775:LEU:HA | 5 | 0.13 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD2 | 6 | 0.13 |
| (1,1120) | 1:C:773:ASP:H | 1:C:770:ARG:HD3 | 6 | 0.13 |
| (1,1111) | 1:C:764:SER:H | 1:C:761:ARG:HA | 10 | 0.13 |
| (1,1101) | 1:C:759:ASP:H | 1:C:759:ASP:HB3 | 9 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 12 | 0.13 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 12 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 7 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 10 | 0.13 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 10 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB2 | 6 | 0.13 |
| (1,1060) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HB3 | 6 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,1059) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 13 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD11 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD12 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD2 | 7 | 0.13 |
| (1,1058) | 1:C:746:ILE:HD13 | 1:C:742:ARG:HD3 | 7 | 0.13 |
| (1,1053) | 1:C:746:ILE:H | 1:C:743:ASP:HA | 7 | 0.13 |
| (1,1011) | 1:C:708:VAL:H | 1:C:705:VAL:HA | 12 | 0.13 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 2 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 2 | 0.13 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 2 | 0.13 |
| (2,98) | 1:B:795:TYR:O | 1:B:799:LEU:N | 10 | 0.12 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 1 | 0.12 |
| (2,67) | 1:B:833:VAL:O | 1:B:837:SER:H | 1 | 0.12 |
| (2,62) | 1:B:830:ILE:O | 1:B:834:GLN:N | 7 | 0.12 |
| (2,61) | 1:B:830:ILE:O | 1:B:834:GLN:H | 10 | 0.12 |
| (2,56) | 1:B:827:ASP:O | 1:B:831:GLU:N | 4 | 0.12 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 3 | 0.12 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 12 | 0.12 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 1 | 0.12 |
| (2,28) | 1:B:803:TRP:O | 1:B:807:LEU:N | 13 | 0.12 |
| (2,24) | 1:B:801:GLN:O | 1:B:805:GLN:N | 5 | 0.12 |
| (2,239) | 1:B:833:VAL:O | 1:B:837:SER:H | 1 | 0.12 |
| (2,234) | 1:B:830:ILE:O | 1:B:834:GLN:N | 7 | 0.12 |
| (2,233) | 1:B:830:ILE:O | 1:B:834:GLN:H | 10 | 0.12 |
| (2,228) | 1:B:827:ASP:O | 1:B:831:GLU:N | 4 | 0.12 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 3 | 0.12 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 12 | 0.12 |
| (2,200) | 1:B:803:TRP:O | 1:B:807:LEU:N | 13 | 0.12 |
| (2,196) | 1:B:801:GLN:O | 1:B:805:GLN:N | 5 | 0.12 |
| (2,184) | 1:B:795:TYR:O | 1:B:799:LEU:N | 10 | 0.12 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 1 | 0.12 |
| (2,153) | 1:B:833:VAL:O | 1:B:837:SER:H | 1 | 0.12 |
| (2,148) | 1:B:830:ILE:O | 1:B:834:GLN:N | 7 | 0.12 |
| (2,147) | 1:B:830:ILE:O | 1:B:834:GLN:H | 10 | 0.12 |
| (2,142) | 1:B:827:ASP:O | 1:B:831:GLU:N | 4 | 0.12 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 3 | 0.12 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 12 | 0.12 |
| (2,12) | 1:B:795:TYR:O | 1:B:799:LEU:N | 10 | 0.12 |
| (2,114) | 1:B:803:TRP:O | 1:B:807:LEU:N | 13 | 0.12 |
| (2,110) | 1:B:801:GLN:O | 1:B:805:GLN:N | 5 | 0.12 |
| (1,995) | 1:C:706:ASN:H | 1:C:703:SER:HA | 1 | 0.12 |
| (1,984) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 9 | 0.12 |
| (1,984) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 10 | 0.12 |
| (1,982) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,982) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,982) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,945) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,945) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,945) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,945) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,945) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,945) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,944) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,944) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,944) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,931) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,931) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,931) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,922) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,918) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,918) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,918) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,910) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,910) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,910) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,896) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,896) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,896) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,887) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,887) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,887) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,884) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 5 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 15 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 15 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 15 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 15 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 15 | 0.12 |
| (1,876) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 15 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.12 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.12 |
| (1,856) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 3 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,841) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 1 | 0.12 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 7 | 0.12 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 7 | 0.12 |
| (1,824) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 9 | 0.12 |
| (1,824) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,775) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,740) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,740) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,740) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 6 | 0.12 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 15 | 0.12 |
| (1,720) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,720) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,720) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 3 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 3 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 8 | 0.12 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 8 | 0.12 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,693) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,693) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 10 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,675) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,675) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,675) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,654) | 1:C:706:ASN:H | 1:C:703:SER:HA | 1 | 0.12 |
| (1,643) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 9 | 0.12 |
| (1,643) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 10 | 0.12 |
| (1,641) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,641) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,641) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,604) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,604) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,604) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,604) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,604) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,604) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,603) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,603) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,603) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,590) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,590) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,590) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 12 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,581) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,577) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,577) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,577) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,569) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,569) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,569) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,555) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,555) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,555) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,546) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,546) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,546) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,543) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 5 | 0.12 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 15 | 0.12 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 15 | 0.12 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 15 | 0.12 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 15 | 0.12 |
| (1,535) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 15 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.12 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.12 |
| (1,515) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 3 | 0.12 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,500) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 1 | 0.12 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 7 | 0.12 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 7 | 0.12 |
| (1,483) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 9 | 0.12 |
| (1,483) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,434) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,399) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,399) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,399) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 6 | 0.12 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 15 | 0.12 |
| (1,379) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,379) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,379) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 3 | 0.12 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 3 | 0.12 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 8 | 0.12 |
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,352) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,352) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,334) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,334) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,334) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,313) | 1:C:706:ASN:H | 1:C:703:SER:HA | 1 | 0.12 |
| (1,302) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 9 | 0.12 |
| (1,302) | 1:C:705:VAL:H | 1:C:702:LEU:HA | 10 | 0.12 |
| (1,300) | 1:C:704:LEU:HD11 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,300) | 1:C:704:LEU:HD12 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,300) | 1:C:704:LEU:HD13 | 1:C:707:ARG:HE | 12 | 0.12 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 4 | 0.12 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 4 | 0.12 |
| (1,263) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,263) | 1:C:698:VAL:HG11 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,263) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,263) | 1:C:698:VAL:HG12 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,263) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD1 | 15 | 0.12 |
| (1,263) | 1:C:698:VAL:HG13 | 1:C:699:PHE:HD2 | 15 | 0.12 |
| (1,262) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,262) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,262) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HG | 9 | 0.12 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 4 | 0.12 |
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB2 | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,249) | 1:C:695:LEU:HD11 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,249) | 1:C:695:LEU:HD12 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB2 | 11 | 0.12 |
| (1,249) | 1:C:695:LEU:HD13 | 1:C:691:SER:HB3 | 11 | 0.12 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD21 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD22 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH11 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH12 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH21 | 12 | 0.12 |
| (1,240) | 1:C:692:LEU:HD23 | 1:C:696:ARG:HH22 | 12 | 0.12 |
| (1,236) | 1:C:692:LEU:HD11 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,236) | 1:C:692:LEU:HD12 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,236) | 1:C:692:LEU:HD13 | 1:C:689:VAL:HA | 6 | 0.12 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 15 | 0.12 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 15 | 0.12 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 10 | 0.12 |
| (1,228) | 1:C:687:ILE:HG21 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,228) | 1:C:687:ILE:HG22 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,228) | 1:C:687:ILE:HG23 | 1:C:691:SER:HG | 1 | 0.12 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,214) | 1:C:684:ILE:HG21 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,214) | 1:C:684:ILE:HG22 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB2 | 13 | 0.12 |
| (1,214) | 1:C:684:ILE:HG23 | 1:C:680:TRP:HB3 | 13 | 0.12 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 8 | 0.12 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 8 | 0.12 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,205) | 1:C:682:ILE:HG21 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,205) | 1:C:682:ILE:HG22 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD1 | 2 | 0.12 |
| (1,205) | 1:C:682:ILE:HG23 | 1:C:685:PHE:HD2 | 2 | 0.12 |
| (1,202) | 1:C:681:TYR:H | 1:C:680:TRP:HE3 | 5 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 3 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 3 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 15 | 0.12 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 15 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 3 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 3 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 15 | 0.12 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 15 | 0.12 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 3 | 0.12 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 3 | 0.12 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 15 | 0.12 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 15 | 0.12 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 13 | 0.12 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 13 | 0.12 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 14 | 0.12 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 14 | 0.12 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 13 | 0.12 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 13 | 0.12 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 14 | 0.12 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 14 | 0.12 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 13 | 0.12 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 13 | 0.12 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 14 | 0.12 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 14 | 0.12 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 1 | 0.12 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 1 | 0.12 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 1 | 0.12 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 1 | 0.12 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 1 | 0.12 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 1 | 0.12 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG11 | 15 | 0.12 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG12 | 15 | 0.12 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG13 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG21 | 15 | 0.12 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG22 | 15 | 0.12 |
| (1,1217) | 1:C:826:THR:H | 1:C:822:VAL:HG23 | 15 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 4 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 4 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 4 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 4 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 4 | 0.12 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 4 | 0.12 |
| (1,1197) | 1:C:786:GLY:H | 1:C:782:VAL:HA | 3 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 8 | 0.12 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 8 | 0.12 |
| (1,1182) | 1:C:784:LEU:H | 1:C:781:ILE:HA | 1 | 0.12 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 7 | 0.12 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 7 | 0.12 |
| (1,1165) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 9 | 0.12 |
| (1,1165) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD21 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD22 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH21 | 12 | 0.12 |
| (1,1116) | 1:C:771:LEU:HD23 | 1:C:772:ARG:HH22 | 12 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD21 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD22 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB2 | 5 | 0.12 |
| (1,1081) | 1:C:753:LEU:HD23 | 1:C:750:ASN:HB3 | 5 | 0.12 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 6 | 0.12 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 15 | 0.12 |
| (1,1061) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,1061) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,1061) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD21 | 11 | 0.12 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 3 | 0.12 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 3 | 0.12 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 8 | 0.12 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,1034) | 1:C:710:GLN:HE21 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB2 | 14 | 0.12 |
| (1,1034) | 1:C:710:GLN:HE22 | 1:C:706:ASN:HB3 | 14 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 10 | 0.12 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 10 | 0.12 |
| (1,1016) | 1:C:708:VAL:HG11 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,1016) | 1:C:708:VAL:HG12 | 1:C:705:VAL:HA | 1 | 0.12 |
| (1,1016) | 1:C:708:VAL:HG13 | 1:C:705:VAL:HA | 1 | 0.12 |
| (2,95) | 1:B:794:LYS:O | 1:B:798:ASN:H | 12 | 0.11 |
| (2,91) | 1:B:792:ALA:O | 1:B:796:TRP:H | 14 | 0.11 |
| (2,9) | 1:B:794:LYS:O | 1:B:798:ASN:H | 12 | 0.11 |
| (2,67) | 1:B:833:VAL:O | 1:B:837:SER:H | 13 | 0.11 |
| (2,62) | 1:B:830:ILE:O | 1:B:834:GLN:N | 1 | 0.11 |
| (2,56) | 1:B:827:ASP:O | 1:B:831:GLU:N | 6 | 0.11 |
| (2,55) | 1:B:827:ASP:O | 1:B:831:GLU:H | 2 | 0.11 |
| (2,5) | 1:B:792:ALA:O | 1:B:796:TRP:H | 14 | 0.11 |
| (2,27) | 1:B:803:TRP:O | 1:B:807:LEU:H | 10 | 0.11 |
| (2,239) | 1:B:833:VAL:O | 1:B:837:SER:H | 13 | 0.11 |
| (2,234) | 1:B:830:ILE:O | 1:B:834:GLN:N | 1 | 0.11 |
| (2,228) | 1:B:827:ASP:O | 1:B:831:GLU:N | 6 | 0.11 |
| (2,227) | 1:B:827:ASP:O | 1:B:831:GLU:H | 2 | 0.11 |
| (2,199) | 1:B:803:TRP:O | 1:B:807:LEU:H | 10 | 0.11 |
| (2,181) | 1:B:794:LYS:O | 1:B:798:ASN:H | 12 | 0.11 |
| (2,177) | 1:B:792:ALA:O | 1:B:796:TRP:H | 14 | 0.11 |
| (2,153) | 1:B:833:VAL:O | 1:B:837:SER:H | 13 | 0.11 |
| (2,148) | 1:B:830:ILE:O | 1:B:834:GLN:N | 1 | 0.11 |
| (2,142) | 1:B:827:ASP:O | 1:B:831:GLU:N | 6 | 0.11 |
| (2,141) | 1:B:827:ASP:O | 1:B:831:GLU:H | 2 | 0.11 |
| (2,113) | 1:B:803:TRP:O | 1:B:807:LEU:H | 10 | 0.11 |
| (1,992) | 1:C:705:VAL:HG21 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,992) | 1:C:705:VAL:HG22 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,992) | 1:C:705:VAL:HG23 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,983) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,962) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 2 | 0.11 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,956) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,956) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,956) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,943) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,943) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,943) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,920) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,920) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,920) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,915) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,915) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,915) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,912) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,912) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,912) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,906) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,906) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,906) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,906) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,906) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,906) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,894) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,894) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,894) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,882) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,882) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,882) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,882) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,882) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,882) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,881) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,881) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,881) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,881) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,881) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,881) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 2 | 0.11 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 2 | 0.11 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,880) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 2 | 0.11 |
| (1,877) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 2 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 6 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 6 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 9 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 9 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.11 |
| (1,873) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.11 |
| (1,867) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.11 |
| (1,866) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 10 | 0.11 |
| (1,863) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 6 | 0.11 |
| (1,855) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,855) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,855) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 7 | 0.11 |
| (1,849) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 8 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,847) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,847) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,847) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 5 | 0.11 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 5 | 0.11 |
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,836) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 12 | 0.11 |
| (1,824) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 2 | 0.11 |
| (1,823) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 6 | 0.11 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,806) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,806) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,806) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 6 | 0.11 |
| (1,771) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 6 | 0.11 |
| (1,767) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,767) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,767) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,763) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,763) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,763) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 5 | 0.11 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 5 | 0.11 |
| (1,757) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 5 | 0.11 |
| (1,748) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,748) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,748) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,746) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,746) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,746) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,739) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,739) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,739) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,727) | 1:C:748:LEU:H | 1:C:745:SER:HA | 4 | 0.11 |
| (1,721) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,721) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,721) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,718) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,718) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,718) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 1 | 0.11 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 1 | 0.11 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 9 | 0.11 |
| (1,713) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 9 | 0.11 |
| (1,685) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 11 | 0.11 |
| (1,685) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 13 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,676) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,676) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,676) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,661) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 10 | 0.11 |
| (1,651) | 1:C:705:VAL:HG21 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,651) | 1:C:705:VAL:HG22 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,651) | 1:C:705:VAL:HG23 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,642) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,642) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,621) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 2 | 0.11 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,615) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,615) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,615) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,602) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,602) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,602) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,579) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,579) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,579) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,574) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,574) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,574) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,571) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,571) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,571) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,565) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,565) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,565) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,565) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,565) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,565) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,553) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,553) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,553) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,541) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,541) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,541) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,541) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,541) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,541) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,540) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,540) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,540) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,540) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,540) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,540) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 2 | 0.11 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 2 | 0.11 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,539) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 2 | 0.11 |
| (1,536) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 2 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 6 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 6 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 9 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 9 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.11 |
| (1,532) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.11 |
| (1,526) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.11 |
| (1,525) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 10 | 0.11 |
| (1,522) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 6 | 0.11 |
| (1,514) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,514) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,514) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 7 | 0.11 |
| (1,508) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 8 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,506) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,506) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,506) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 5 | 0.11 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 5 | 0.11 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 12 | 0.11 |
| (1,495) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 12 | 0.11 |
| (1,483) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 2 | 0.11 |
| (1,482) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 6 | 0.11 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,465) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,465) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,465) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 2 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 6 | 0.11 |
| (1,430) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 6 | 0.11 |
| (1,426) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,426) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,426) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,422) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,422) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,422) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 5 | 0.11 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 5 | 0.11 |
| (1,416) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 5 | 0.11 |
| (1,407) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,407) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,407) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,405) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,405) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,405) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,398) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,398) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,398) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,386) | 1:C:748:LEU:H | 1:C:745:SER:HA | 4 | 0.11 |
| (1,380) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,380) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,380) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,377) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,377) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,377) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 1 | 0.11 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 1 | 0.11 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 9 | 0.11 |
| (1,372) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 9 | 0.11 |
| (1,344) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 11 | 0.11 |
| (1,344) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 13 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 2 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,335) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,335) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,335) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,320) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 10 | 0.11 |
| (1,310) | 1:C:705:VAL:HG21 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,310) | 1:C:705:VAL:HG22 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,310) | 1:C:705:VAL:HG23 | 1:C:701:VAL:HA | 11 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 5 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD11 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD12 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG21 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG22 | 9 | 0.11 |
| (1,301) | 1:C:704:LEU:HD13 | 1:C:708:VAL:HG23 | 9 | 0.11 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,3) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,3) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 1 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,3) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,280) | 1:C:702:LEU:H | 1:C:699:PHE:HA | 2 | 0.11 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,274) | 1:C:700:ALA:HB1 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,274) | 1:C:700:ALA:HB2 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB2 | 3 | 0.11 |
| (1,274) | 1:C:700:ALA:HB3 | 1:C:703:SER:HB3 | 3 | 0.11 |
| (1,261) | 1:C:698:VAL:HG11 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,261) | 1:C:698:VAL:HG12 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,261) | 1:C:698:VAL:HG13 | 1:C:695:LEU:HA | 6 | 0.11 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,238) | 1:C:692:LEU:HD11 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,238) | 1:C:692:LEU:HD12 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB2 | 15 | 0.11 |
| (1,238) | 1:C:692:LEU:HD13 | 1:C:691:SER:HB3 | 15 | 0.11 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,233) | 1:C:689:VAL:HG21 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,233) | 1:C:689:VAL:HG22 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE1 | 9 | 0.11 |
| (1,233) | 1:C:689:VAL:HG23 | 1:C:685:PHE:HE2 | 9 | 0.11 |
| (1,230) | 1:C:688:ILE:HG21 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,230) | 1:C:688:ILE:HG22 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,230) | 1:C:688:ILE:HG23 | 1:C:692:LEU:HG | 4 | 0.11 |
| (1,224) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,224) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,224) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 2 | 0.11 |
| (1,224) | 1:C:686:ILE:HD11 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,224) | 1:C:686:ILE:HD12 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,224) | 1:C:686:ILE:HD13 | 1:C:685:PHE:H | 5 | 0.11 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 1 | 0.11 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,212) | 1:C:684:ILE:HD11 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,212) | 1:C:684:ILE:HD12 | 1:C:681:TYR:HE2 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE1 | 10 | 0.11 |
| (1,212) | 1:C:684:ILE:HD13 | 1:C:681:TYR:HE2 | 10 | 0.11 |
| (1,200) | 1:C:679:LEU:HD11 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,200) | 1:C:679:LEU:HD12 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,200) | 1:C:679:LEU:HD13 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,200) | 1:C:679:LEU:HD21 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,200) | 1:C:679:LEU:HD22 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,200) | 1:C:679:LEU:HD23 | 1:C:680:TRP:HE3 | 2 | 0.11 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,2) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,2) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,2) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,199) | 1:C:679:LEU:HD11 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,199) | 1:C:679:LEU:HD12 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,199) | 1:C:679:LEU:HD13 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,199) | 1:C:679:LEU:HD21 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,199) | 1:C:679:LEU:HD22 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,199) | 1:C:679:LEU:HD23 | 1:C:678:TRP:HD1 | 10 | 0.11 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 11 | 0.11 |
| (1,195) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 11 | 0.11 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 11 | 0.11 |
| (1,194) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 11 | 0.11 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD2 | 11 | 0.11 |
| (1,193) | 1:C:839:ALA:H | 1:C:808:LYS:HD3 | 11 | 0.11 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.11 |
| (1,177) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.11 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.11 |
| (1,176) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.11 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG2 | 8 | 0.11 |
| (1,175) | 1:C:816:ASN:H | 1:C:831:GLU:HG3 | 8 | 0.11 |
| (1,174) | 1:C:816:ASN:H | 1:C:830:ILE:HD11 | 10 | 0.11 |
| (1,174) | 1:C:816:ASN:H | 1:C:830:ILE:HD12 | 10 | 0.11 |
| (1,174) | 1:C:816:ASN:H | 1:C:830:ILE:HD13 | 10 | 0.11 |
| (1,173) | 1:C:816:ASN:H | 1:C:830:ILE:HD11 | 10 | 0.11 |
| (1,173) | 1:C:816:ASN:H | 1:C:830:ILE:HD12 | 10 | 0.11 |
| (1,173) | 1:C:816:ASN:H | 1:C:830:ILE:HD13 | 10 | 0.11 |
| (1,172) | 1:C:816:ASN:H | 1:C:830:ILE:HD11 | 10 | 0.11 |
| (1,172) | 1:C:816:ASN:H | 1:C:830:ILE:HD12 | 10 | 0.11 |
| (1,172) | 1:C:816:ASN:H | 1:C:830:ILE:HD13 | 10 | 0.11 |
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,171) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 8 | 0.11 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 8 | 0.11 |
| (1,170) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 8 | 0.11 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD2 | 8 | 0.11 |
| (1,169) | 1:C:808:LYS:H | 1:C:838:ARG:HD3 | 8 | 0.11 |
| (1,147) | 1:C:794:LYS:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,147) | 1:C:794:LYS:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,146) | 1:C:794:LYS:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,146) | 1:C:794:LYS:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,145) | 1:C:794:LYS:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,145) | 1:C:794:LYS:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 2 | 0.11 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 2 | 0.11 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG2 | 13 | 0.11 |
| (1,1221) | 1:C:852:GLU:H | 1:C:848:ARG:HG3 | 13 | 0.11 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG2 | 2 | 0.11 |
| (1,1218) | 1:C:835:GLY:H | 1:C:834:GLN:HG3 | 2 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 6 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 6 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 9 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 9 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB2 | 10 | 0.11 |
| (1,1214) | 1:C:806:GLU:H | 1:C:803:TRP:HB3 | 10 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 8 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 13 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD11 | 15 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD12 | 15 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD13 | 15 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD21 | 15 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD22 | 15 | 0.11 |
| (1,1208) | 1:C:797:TRP:HE1 | 1:C:793:LEU:HD23 | 15 | 0.11 |
| (1,1207) | 1:C:797:TRP:H | 1:C:796:TRP:HD1 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1204) | 1:C:796:TRP:HE1 | 1:C:796:TRP:H | 6 | 0.11 |
| (1,1196) | 1:C:785:LEU:HD21 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,1196) | 1:C:785:LEU:HD22 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,1196) | 1:C:785:LEU:HD23 | 1:C:782:VAL:HA | 12 | 0.11 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 7 | 0.11 |
| (1,1190) | 1:C:785:LEU:H | 1:C:782:VAL:HA | 8 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 4 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 5 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD11 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD12 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD2 | 15 | 0.11 |
| (1,1188) | 1:C:784:LEU:HD13 | 1:C:787:ARG:HD3 | 15 | 0.11 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 5 | 0.11 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 5 | 0.11 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD2 | 12 | 0.11 |
| (1,1177) | 1:C:783:GLU:H | 1:C:780:ARG:HD3 | 12 | 0.11 |
| (1,1165) | 1:C:781:ILE:H | 1:C:780:ARG:HA | 2 | 0.11 |
| (1,1164) | 1:C:781:ILE:H | 1:C:778:VAL:HA | 6 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG21 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG22 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD2 | 2 | 0.11 |
| (1,1147) | 1:C:777:ILE:HG23 | 1:C:780:ARG:HD3 | 2 | 0.11 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB2 | 6 | 0.11 |
| (1,1112) | 1:C:764:SER:H | 1:C:771:LEU:HB3 | 6 | 0.11 |
| (1,1108) | 1:C:763:LEU:HD11 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,1108) | 1:C:763:LEU:HD12 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,1108) | 1:C:763:LEU:HD13 | 1:C:764:SER:HG | 8 | 0.11 |
| (1,1104) | 1:C:760:LEU:HD11 | 1:C:757:TRP:HA | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1104) | 1:C:760:LEU:HD12 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,1104) | 1:C:760:LEU:HD13 | 1:C:757:TRP:HA | 5 | 0.11 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB1 | 5 | 0.11 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB2 | 5 | 0.11 |
| (1,1098) | 1:C:758:ASP:H | 1:C:754:ALA:HB3 | 5 | 0.11 |
| (1,1089) | 1:C:754:ALA:HB1 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,1089) | 1:C:754:ALA:HB2 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,1089) | 1:C:754:ALA:HB3 | 1:C:758:ASP:H | 5 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB1 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB2 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA2 | 9 | 0.11 |
| (1,1087) | 1:C:754:ALA:HB3 | 1:C:751:GLY:HA3 | 9 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD11 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD12 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB2 | 6 | 0.11 |
| (1,1080) | 1:C:753:LEU:HD13 | 1:C:757:TRP:HB3 | 6 | 0.11 |
| (1,1068) | 1:C:748:LEU:H | 1:C:745:SER:HA | 4 | 0.11 |
| (1,1062) | 1:C:746:ILE:HG21 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,1062) | 1:C:746:ILE:HG22 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,1062) | 1:C:746:ILE:HG23 | 1:C:750:ASN:HD22 | 4 | 0.11 |
| (1,1059) | 1:C:746:ILE:HD11 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,1059) | 1:C:746:ILE:HD12 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,1059) | 1:C:746:ILE:HD13 | 1:C:743:ASP:HA | 9 | 0.11 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 1 | 0.11 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 1 | 0.11 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB2 | 9 | 0.11 |
| (1,1054) | 1:C:746:ILE:H | 1:C:743:ASP:HB3 | 9 | 0.11 |
| (1,1026) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 11 | 0.11 |
| (1,1026) | 1:C:709:ARG:HE | 1:C:709:ARG:H | 13 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 2 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 9 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 9 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 9 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG21 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG22 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD2 | 11 | 0.11 |
| (1,1017) | 1:C:708:VAL:HG23 | 1:C:707:ARG:HD3 | 11 | 0.11 |
| (1,1002) | 1:C:707:ARG:H | 1:C:704:LEU:HA | 10 | 0.11 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,1) | 1:C:679:LEU:HD21 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,1) | 1:C:679:LEU:HD22 | 1:C:683:ARG:HD3 | 1 | 0.11 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD2 | 1 | 0.11 |
| (1,1) | 1:C:679:LEU:HD23 | 1:C:683:ARG:HD3 | 1 | 0.11 |

# 10 Dihedral-angle violation analysis

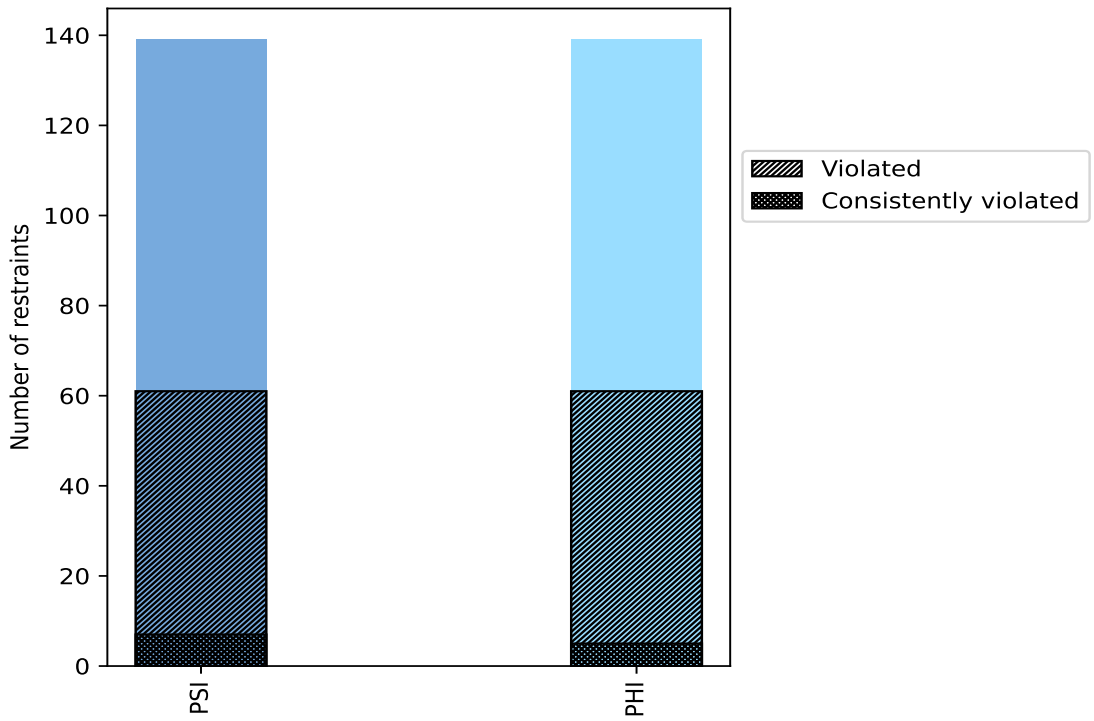
## 10.1 Summary of dihedral-angle violations

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 | 139 | 50.0 | 61 | 43.9 | 21.9 | 7 | 5.0 | 2.5 |
| PHI | 139 | 50.0 | 61 | 43.9 | 21.9 | 5 | 3.6 | 1.8 |
| Total | 278 | 100.0 | 122 | 43.9 | 43.9 | 12 | 4.3 | 4.3 |

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

### 10.1.1 Bar chart : Distribution of dihedral-angles and violations



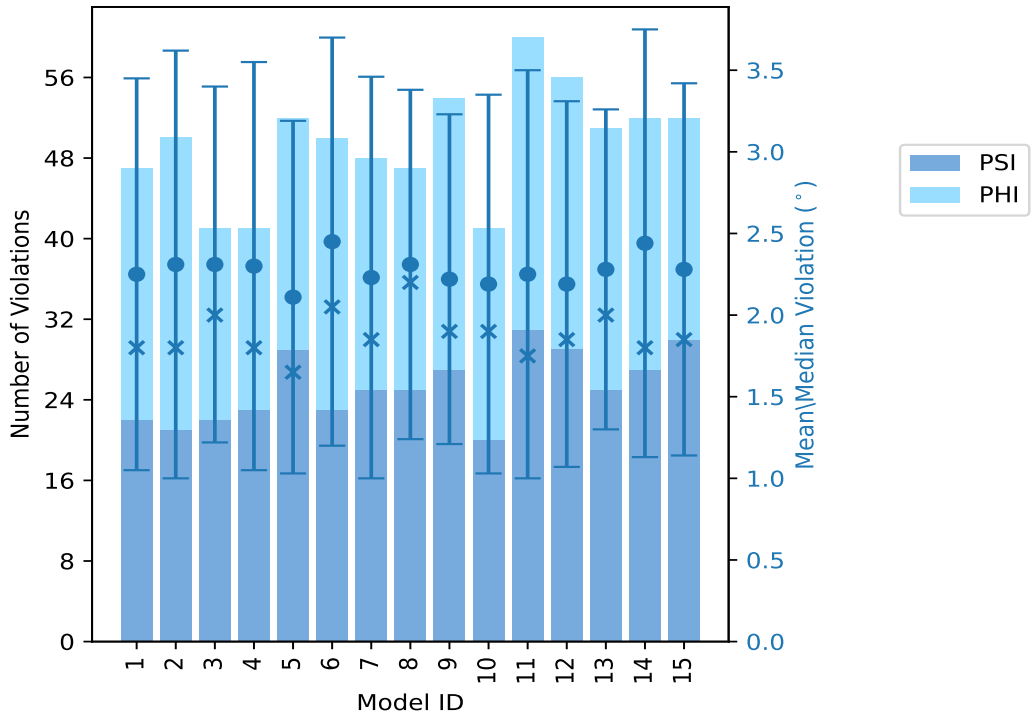

Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 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 | 22 | 25 | 47 | 2.25 | 5.8 | 1.2 | 1.8 |
| 2 | 21 | 29 | 50 | 2.31 | 6.5 | 1.31 | 1.8 |
| 3 | 22 | 19 | 41 | 2.31 | 5.2 | 1.09 | 2.0 |
| 4 | 23 | 18 | 41 | 2.3 | 6.2 | 1.25 | 1.8 |
| 5 | 29 | 23 | 52 | 2.11 | 5.5 | 1.08 | 1.65 |
| 6 | 23 | 27 | 50 | 2.45 | 6.3 | 1.25 | 2.05 |
| 7 | 25 | 23 | 48 | 2.23 | 7.1 | 1.23 | 1.85 |
| 8 | 25 | 22 | 47 | 2.31 | 5.6 | 1.07 | 2.2 |
| 9 | 27 | 27 | 54 | 2.22 | 4.8 | 1.01 | 1.9 |
| 10 | 20 | 21 | 41 | 2.19 | 5.3 | 1.16 | 1.9 |
| 11 | 31 | 29 | 60 | 2.25 | 6.9 | 1.25 | 1.75 |
| 12 | 29 | 27 | 56 | 2.19 | 6.4 | 1.12 | 1.85 |
| 13 | 25 | 26 | 51 | 2.28 | 5.1 | 0.98 | 2.0 |
| 14 | 27 | 25 | 52 | 2.44 | 6.1 | 1.31 | 1.8 |
| 15 | 30 | 22 | 52 | 2.28 | 5.7 | 1.14 | 1.85 |

### 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

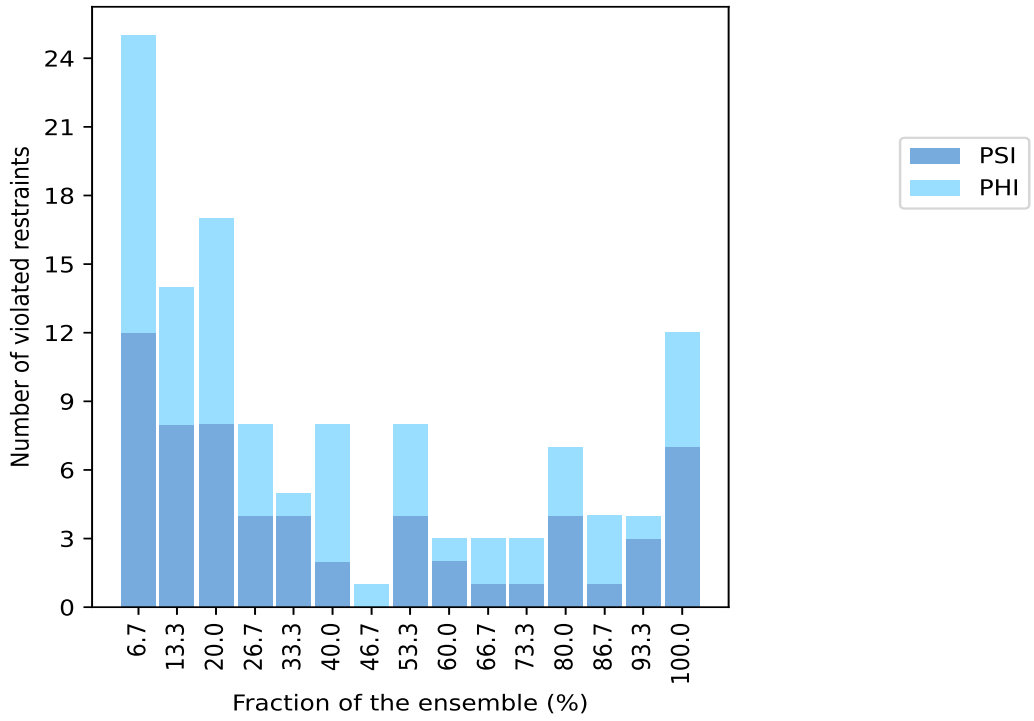
## 10.3 Dihedral-angle violation statistics for the ensemble (i)

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] | % |
| 12 | 13 | 25 | 1 | 6.7 |
| 8 | 6 | 14 | 2 | 13.3 |
| 8 | 9 | 17 | 3 | 20.0 |
| 4 | 4 | 8 | 4 | 26.7 |
| 4 | 1 | 5 | 5 | 33.3 |
| 2 | 6 | 8 | 6 | 40.0 |
| 0 | 1 | 1 | 7 | 46.7 |
| 4 | 4 | 8 | 8 | 53.3 |
| 2 | 1 | 3 | 9 | 60.0 |
| 1 | 2 | 3 | 10 | 66.7 |
| 1 | 2 | 3 | 11 | 73.3 |
| 4 | 3 | 7 | 12 | 80.0 |
| 1 | 3 | 4 | 13 | 86.7 |
| 3 | 1 | 4 | 14 | 93.3 |
| 7 | 5 | 12 | 15 | 100.0 |

[1] Number of models with violations

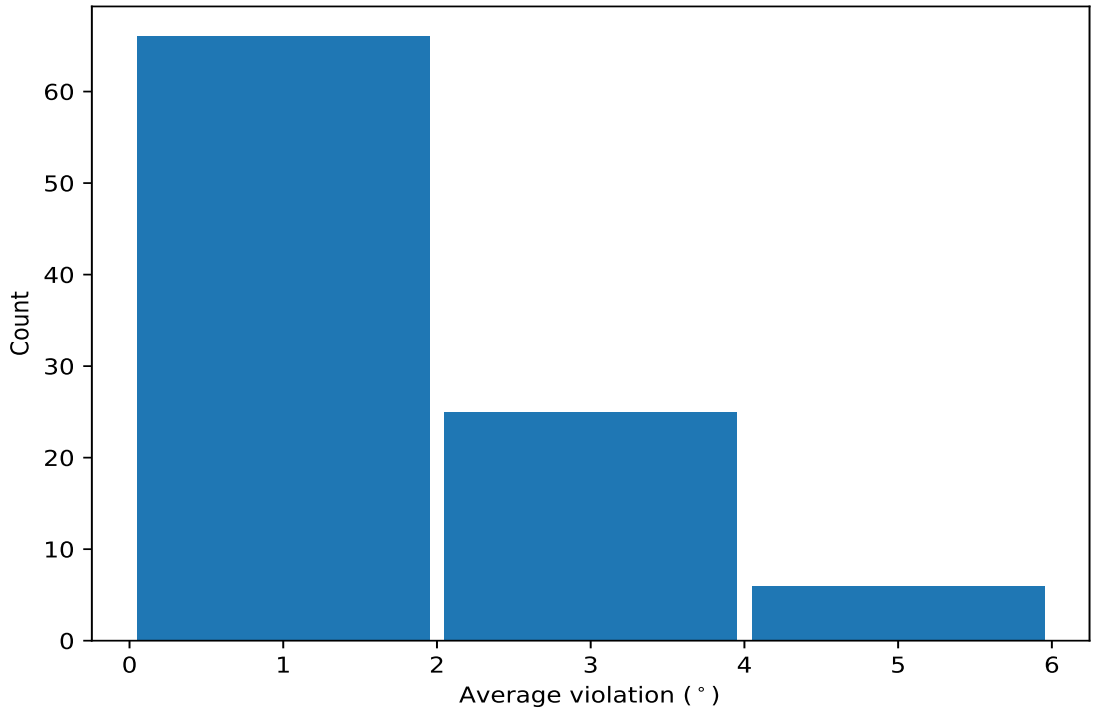
### 10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble




## 10.4 Most violated dihedral-angle restraints in the ensemble

### 10.4.1 Histogram : Distribution of mean dihedral-angle violations

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

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 |
|---|---|---|---|---|---|---|---|---|
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 15 | 4.73 | 1.46 | 4.9 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 15 | 4.69 | 0.86 | 4.8 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 15 | 4.49 | 0.99 | 4.3 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 15 | 4.34 | 0.87 | 4.1 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 15 | 4.08 | 0.69 | 4.1 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 15 | 4.04 | 0.59 | 4.0 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 15 | 3.59 | 0.95 | 3.6 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 15 | 3.23 | 0.92 | 3.1 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 15 | 2.97 | 0.83 | 3.1 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 15 | 2.85 | 0.63 | 2.7 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 15 | 2.37 | 0.69 | 2.2 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 15 | 2.21 | 0.49 | 2.2 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 14 | 3.52 | 1.09 | 3.85 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 14 | 2.9 | 0.98 | 2.6 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 14 | 1.95 | 0.68 | 1.85 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 14 | 1.66 | 0.41 | 1.6 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 13 | 2.23 | 0.62 | 2.1 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 13 | 1.82 | 0.48 | 1.6 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 13 | 1.74 | 0.36 | 1.8 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 13 | 1.73 | 0.59 | 1.4 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 12 | 2.34 | 0.86 | 2.2 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 12 | 2.33 | 0.8 | 2.1 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 12 | 2.3 | 0.7 | 2.2 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 12 | 2.08 | 0.52 | 2.2 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 12 | 1.98 | 0.61 | 1.85 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 12 | 1.9 | 0.75 | 1.75 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 12 | 1.78 | 0.44 | 1.7 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 11 | 2.42 | 0.62 | 2.3 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 11 | 2.31 | 0.78 | 2.1 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 11 | 2.09 | 0.86 | 1.8 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 10 | 2.12 | 0.73 | 1.8 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 10 | 1.39 | 0.24 | 1.35 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 10 | 1.27 | 0.17 | 1.2 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 9 | 2.24 | 0.66 | 2.3 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 9 | 1.62 | 0.47 | 1.5 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 9 | 1.48 | 0.39 | 1.3 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 8 | 2.21 | 0.93 | 1.9 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 8 | 1.94 | 0.41 | 1.8 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 8 | 1.81 | 0.64 | 1.6 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 8 | 1.65 | 0.61 | 1.4 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 8 | 1.48 | 0.1 | 1.5 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 8 | 1.45 | 0.34 | 1.3 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 8 | 1.32 | 0.27 | 1.15 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 8 | 1.21 | 0.18 | 1.1 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 7 | 1.61 | 0.38 | 1.4 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 6 | 2.35 | 1.22 | 1.75 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 6 | 1.95 | 0.72 | 1.8 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 6 | 1.7 | 0.42 | 1.65 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 6 | 1.63 | 0.45 | 1.5 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 6 | 1.48 | 0.5 | 1.25 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 6 | 1.47 | 0.14 | 1.5 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 6 | 1.45 | 0.31 | 1.35 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 6 | 1.42 | 0.25 | 1.35 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 5 | 1.78 | 0.4 | 1.8 |
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 5 | 1.72 | 0.32 | 1.6 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 5 | 1.56 | 0.41 | 1.6 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 5 | 1.44 | 0.28 | 1.3 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 5 | 1.42 | 0.31 | 1.2 |
| (1,176) | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1:C:795:TYR:N | 4 | 1.83 | 0.81 | 1.5 |
| (1,228) | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 1:C:821:ALA:N | 4 | 1.78 | 0.2 | 1.7 |
| (1,178) | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 1:C:796:TRP:N | 4 | 1.72 | 0.86 | 1.3 |
| (1,121) | 1:C:761:ARG:C | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 4 | 1.65 | 0.15 | 1.65 |
| (1,145) | 1:C:778:VAL:C | 1:C:779:THR:N | 1:C:779:THR:CA | 1:C:779:THR:C | 4 | 1.6 | 0.27 | 1.55 |
| (1,150) | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 1:C:782:VAL:N | 4 | 1.5 | 0.24 | 1.4 |
| (1,165) | 1:C:788:ARG:C | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 4 | 1.35 | 0.29 | 1.25 |
| (1,163) | 1:C:787:ARG:C | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 4 | 1.25 | 0.15 | 1.2 |
| (1,175) | 1:C:793:LEU:C | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 3 | 2.77 | 0.97 | 2.4 |
| (1,113) | 1:C:757:TRP:C | 1:C:758:ASP:N | 1:C:758:ASP:CA | 1:C:758:ASP:C | 3 | 2.1 | 0.75 | 1.9 |
| (1,110) | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 1:C:757:TRP:N | 3 | 2.0 | 0.99 | 1.4 |
| (1,162) | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 1:C:788:ARG:N | 3 | 1.57 | 0.21 | 1.6 |
| (1,164) | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 1:C:789:GLY:N | 3 | 1.57 | 0.25 | 1.5 |
| (1,170) | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 1:C:792:ALA:N | 3 | 1.57 | 0.37 | 1.6 |

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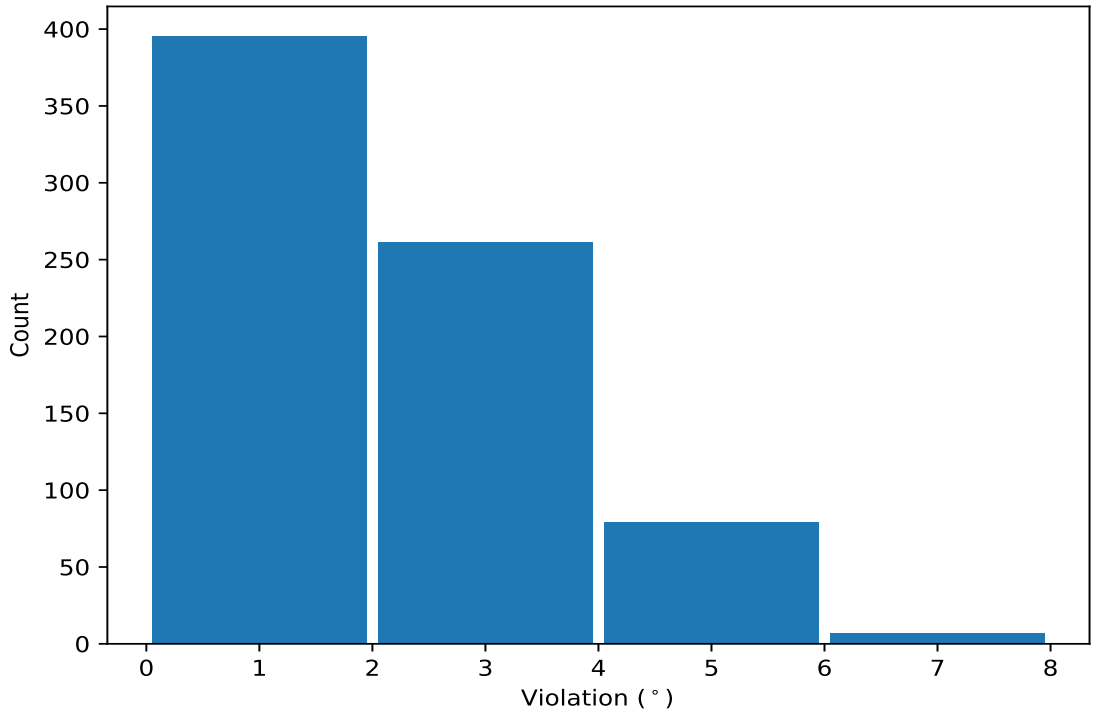
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,199) | 1:C:805:GLN:C | 1:C:806:GLU:N | 1:C:806:GLU:CA | 1:C:806:GLU:C | 3 | 1.57 | 0.45 | 1.3 |
| (1,254) | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 1:C:839:ALA:N | 3 | 1.53 | 0.25 | 1.6 |
| (1,67) | 1:C:714:PRO:C | 1:C:715:LEU:N | 1:C:715:LEU:CA | 1:C:715:LEU:C | 3 | 1.5 | 0.28 | 1.7 |
| (1,58) | 1:C:707:ARG:N | 1:C:707:ARG:CA | 1:C:707:ARG:C | 1:C:708:VAL:N | 3 | 1.47 | 0.33 | 1.4 |
| (1,151) | 1:C:781:ILE:C | 1:C:782:VAL:N | 1:C:782:VAL:CA | 1:C:782:VAL:C | 3 | 1.43 | 0.12 | 1.4 |
| (1,28) | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 1:C:693:ILE:N | 3 | 1.4 | 0.24 | 1.4 |
| (1,131) | 1:C:771:LEU:C | 1:C:772:ARG:N | 1:C:772:ARG:CA | 1:C:772:ARG:C | 3 | 1.37 | 0.24 | 1.2 |
| (1,144) | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 1:C:779:THR:N | 3 | 1.33 | 0.19 | 1.2 |
| (1,253) | 1:C:837:SER:C | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 3 | 1.3 | 0.08 | 1.3 |
| (1,109) | 1:C:755:LEU:C | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 3 | 1.27 | 0.24 | 1.1 |
| (1,183) | 1:C:797:TRP:C | 1:C:798:ASN:N | 1:C:798:ASN:CA | 1:C:798:ASN:C | 3 | 1.27 | 0.17 | 1.2 |
| (1,174) | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 1:C:794:LYS:N | 2 | 2.4 | 1.1 | 2.4 |
| (1,66) | 1:C:713:SER:N | 1:C:713:SER:CA | 1:C:713:SER:C | 1:C:714:PRO:N | 2 | 2.1 | 0.2 | 2.1 |
| (1,29) | 1:C:692:LEU:C | 1:C:693:ILE:N | 1:C:693:ILE:CA | 1:C:693:ILE:C | 2 | 1.9 | 0.5 | 1.9 |
| (1,161) | 1:C:786:GLY:C | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 2 | 1.9 | 0.4 | 1.9 |
| (1,122) | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 1:C:763:LEU:N | 2 | 1.8 | 0.7 | 1.8 |
| (1,173) | 1:C:792:ALA:C | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 2 | 1.7 | 0.1 | 1.7 |
| (1,117) | 1:C:759:ASP:C | 1:C:760:LEU:N | 1:C:760:LEU:CA | 1:C:760:LEU:C | 2 | 1.55 | 0.35 | 1.55 |
| (1,116) | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 1:C:760:LEU:N | 2 | 1.4 | 0.0 | 1.4 |
| (1,7) | 1:C:681:TYR:C | 1:C:682:ILE:N | 1:C:682:ILE:CA | 1:C:682:ILE:C | 2 | 1.3 | 0.1 | 1.3 |
| (1,138) | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 1:C:776:LEU:N | 2 | 1.3 | 0.1 | 1.3 |
| (1,246) | 1:C:834:GLN:N | 1:C:834:GLN:CA | 1:C:834:GLN:C | 1:C:835:GLY:N | 2 | 1.3 | 0.1 | 1.3 |
| (1,115) | 1:C:758:ASP:C | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 2 | 1.25 | 0.05 | 1.25 |
| (1,102) | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 1:C:753:LEU:N | 2 | 1.2 | 0.0 | 1.2 |
| (1,222) | 1:C:817:ALA:N | 1:C:817:ALA:CA | 1:C:817:ALA:C | 1:C:818:THR:N | 2 | 1.15 | 0.05 | 1.15 |

[1] Number of violated models, [2]Standard 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

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 (°) |
|---|---|---|---|---|---|---|
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 7 | 7.1 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 11 | 6.9 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 2 | 6.5 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 12 | 6.4 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 6 | 6.3 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 4 | 6.2 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 14 | 6.1 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 2 | 5.8 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 1 | 5.8 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 15 | 5.7 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 8 | 5.6 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 12 | 5.6 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 5 | 5.5 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 10 | 5.3 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 6 | 5.3 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 1 | 5.3 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 3 | 5.2 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 2 | 5.2 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 14 | 5.2 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 3 | 5.1 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 11 | 5.1 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 3 | 5.1 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 1 | 5.1 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 6 | 5.1 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 13 | 5.1 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 15 | 5.0 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 2 | 5.0 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 10 | 5.0 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 14 | 5.0 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 4 | 4.9 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 6 | 4.9 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 10 | 4.9 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 11 | 4.9 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 8 | 4.9 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 10 | 4.9 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 11 | 4.9 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 2 | 4.8 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 12 | 4.8 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 5 | 4.8 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 9 | 4.8 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 1 | 4.7 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 9 | 4.7 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 14 | 4.6 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 1 | 4.6 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 15 | 4.6 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 7 | 4.6 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 9 | 4.6 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 8 | 4.5 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 15 | 4.5 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 6 | 4.5 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 14 | 4.5 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 14 | 4.5 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 14 | 4.4 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 4 | 4.4 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 6 | 4.4 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 6 | 4.3 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 15 | 4.3 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 5 | 4.3 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 11 | 4.3 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 13 | 4.3 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 11 | 4.2 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 4 | 4.2 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 7 | 4.2 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 8 | 4.2 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 11 | 4.2 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 15 | 4.2 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 7 | 4.2 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 2 | 4.1 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 15 | 4.1 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 5 | 4.1 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 9 | 4.1 |
| (1,175) | 1:C:793:LEU:C | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 13 | 4.1 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 5 | 4.1 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 7 | 4.1 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 9 | 4.1 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 11 | 4.1 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 4 | 4.1 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 13 | 4.1 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 4 | 4.1 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 6 | 4.0 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 11 | 4.0 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 1 | 4.0 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 5 | 4.0 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 14 | 4.0 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 5 | 4.0 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 12 | 4.0 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 14 | 3.9 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 6 | 3.9 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 8 | 3.9 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 12 | 3.9 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 9 | 3.9 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 13 | 3.9 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 3 | 3.9 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 15 | 3.9 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 4 | 3.9 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 15 | 3.9 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 13 | 3.9 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 2 | 3.8 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 3 | 3.8 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1 | 3.8 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 9 | 3.8 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 14 | 3.8 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 14 | 3.8 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 2 | 3.7 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 12 | 3.7 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 4 | 3.7 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 8 | 3.7 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 14 | 3.6 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 2 | 3.6 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 5 | 3.6 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 9 | 3.6 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 7 | 3.6 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 7 | 3.6 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 4 | 3.6 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 13 | 3.6 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 10 | 3.6 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 4 | 3.6 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 7 | 3.6 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 12 | 3.5 |
| (1,174) | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 1:C:794:LYS:N | 13 | 3.5 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 8 | 3.5 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 7 | 3.5 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 7 | 3.5 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 11 | 3.4 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 12 | 3.4 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 14 | 3.4 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 2 | 3.4 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 4 | 3.4 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 3 | 3.4 |
| (1,110) | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 1:C:757:TRP:N | 14 | 3.4 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 15 | 3.3 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 7 | 3.3 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 10 | 3.3 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 13 | 3.3 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 8 | 3.3 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 5 | 3.2 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 11 | 3.2 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 3 | 3.2 |
| (1,178) | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 1:C:796:TRP:N | 14 | 3.2 |
| (1,176) | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1:C:795:TYR:N | 8 | 3.2 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 11 | 3.2 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 9 | 3.2 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 9 | 3.2 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 12 | 3.1 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 6 | 3.1 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 6 | 3.1 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 3 | 3.1 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 7 | 3.1 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 9 | 3.1 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 10 | 3.1 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 2 | 3.1 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 14 | 3.1 |
| (1,168) | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 1:C:791:GLU:N | 12 | 3.1 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 1 | 3.1 |
| (1,113) | 1:C:757:TRP:C | 1:C:758:ASP:N | 1:C:758:ASP:CA | 1:C:758:ASP:C | 13 | 3.1 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 11 | 3.1 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 12 | 3.1 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 13 | 3.0 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 8 | 3.0 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 13 | 3.0 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 14 | 3.0 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 3 | 3.0 |
| (1,128) | 1:C:770:ARG:N | 1:C:770:ARG:CA | 1:C:770:ARG:C | 1:C:771:LEU:N | 8 | 3.0 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 5 | 3.0 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 6 | 3.0 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 12 | 2.9 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 15 | 2.9 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 14 | 2.9 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 6 | 2.9 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 3 | 2.9 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 12 | 2.9 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 13 | 2.9 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 11 | 2.9 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 1 | 2.9 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 9 | 2.9 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 3 | 2.9 |
| (1,129) | 1:C:770:ARG:C | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 8 | 2.9 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 10 | 2.9 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 14 | 2.9 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 6 | 2.8 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 13 | 2.8 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 9 | 2.8 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 11 | 2.8 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 13 | 2.8 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 3 | 2.8 |
| (1,37) | 1:C:696:ARG:C | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 10 | 2.8 |
| (1,36) | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1:C:697:ILE:N | 10 | 2.8 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 6 | 2.8 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 6 | 2.8 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 15 | 2.8 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 10 | 2.8 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 7 | 2.8 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 1 | 2.8 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 2 | 2.8 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 3 | 2.8 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 13 | 2.8 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 5 | 2.8 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 2 | 2.8 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1 | 2.7 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 1 | 2.7 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 9 | 2.7 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 14 | 2.7 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 6 | 2.7 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 8 | 2.7 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 6 | 2.7 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 8 | 2.7 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 9 | 2.7 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 2 | 2.7 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 8 | 2.7 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 11 | 2.7 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 6 | 2.6 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 11 | 2.6 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 10 | 2.6 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 13 | 2.6 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 15 | 2.6 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 11 | 2.6 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 11 | 2.6 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 11 | 2.6 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 15 | 2.6 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 3 | 2.6 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 1 | 2.6 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 7 | 2.6 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 5 | 2.6 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 12 | 2.6 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 15 | 2.6 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 3 | 2.5 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 10 | 2.5 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 1 | 2.5 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 15 | 2.5 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 6 | 2.5 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 9 | 2.5 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 7 | 2.5 |
| (1,122) | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 1:C:763:LEU:N | 13 | 2.5 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 14 | 2.5 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 6 | 2.5 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 9 | 2.5 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 8 | 2.4 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 9 | 2.4 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 10 | 2.4 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 5 | 2.4 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 5 | 2.4 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 4 | 2.4 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 3 | 2.4 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 2 | 2.4 |
| (1,29) | 1:C:692:LEU:C | 1:C:693:ILE:N | 1:C:693:ILE:CA | 1:C:693:ILE:C | 12 | 2.4 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 5 | 2.4 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 1 | 2.4 |
| (1,177) | 1:C:794:LYS:C | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 8 | 2.4 |
| (1,175) | 1:C:793:LEU:C | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 8 | 2.4 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 9 | 2.4 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 15 | 2.4 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 7 | 2.4 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 12 | 2.4 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 4 | 2.4 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 13 | 2.4 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 2 | 2.4 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 2 | 2.4 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 15 | 2.4 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 10 | 2.4 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 14 | 2.4 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 5 | 2.3 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 13 | 2.3 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 12 | 2.3 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 12 | 2.3 |
| (1,66) | 1:C:713:SER:N | 1:C:713:SER:CA | 1:C:713:SER:C | 1:C:714:PRO:N | 8 | 2.3 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 11 | 2.3 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 15 | 2.3 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 11 | 2.3 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 3 | 2.3 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 2 | 2.3 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 12 | 2.3 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 14 | 2.3 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 5 | 2.3 |
| (1,161) | 1:C:786:GLY:C | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 11 | 2.3 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 7 | 2.3 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 15 | 2.3 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 13 | 2.3 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 9 | 2.3 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 8 | 2.3 |
| (1,105) | 1:C:753:LEU:C | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 13 | 2.3 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 1 | 2.2 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 9 | 2.2 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 7 | 2.2 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 7 | 2.2 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 13 | 2.2 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 8 | 2.2 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 13 | 2.2 |
| (1,42) | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 1:C:700:ALA:N | 1 | 2.2 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 8 | 2.2 |
| (1,34) | 1:C:695:LEU:N | 1:C:695:LEU:CA | 1:C:695:LEU:C | 1:C:696:ARG:N | 15 | 2.2 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 12 | 2.2 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 2 | 2.2 |
| (1,199) | 1:C:805:GLN:C | 1:C:806:GLU:N | 1:C:806:GLU:CA | 1:C:806:GLU:C | 1 | 2.2 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 10 | 2.2 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 2 | 2.2 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 8 | 2.2 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 6 | 2.2 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 8 | 2.2 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 3 | 2.2 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 12 | 2.2 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 10 | 2.2 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 6 | 2.2 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 3 | 2.2 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 7 | 2.1 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 9 | 2.1 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1 | 2.1 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 4 | 2.1 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 3 | 2.1 |
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 10 | 2.1 |
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 12 | 2.1 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 5 | 2.1 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 4 | 2.1 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 6 | 2.1 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 15 | 2.1 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 2 | 2.1 |
| (1,228) | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 1:C:821:ALA:N | 6 | 2.1 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 1 | 2.1 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 12 | 2.1 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 4 | 2.1 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 12 | 2.1 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 11 | 2.1 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 15 | 2.1 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 8 | 2.0 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 10 | 2.0 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 7 | 2.0 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 15 | 2.0 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 1 | 2.0 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 11 | 2.0 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 3 | 2.0 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 12 | 2.0 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 9 | 2.0 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 8 | 2.0 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 11 | 2.0 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 9 | 2.0 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 8 | 2.0 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 10 | 2.0 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 2 | 2.0 |
| (1,170) | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 1:C:792:ALA:N | 9 | 2.0 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 13 | 2.0 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 9 | 2.0 |
| (1,145) | 1:C:778:VAL:C | 1:C:779:THR:N | 1:C:779:THR:CA | 1:C:779:THR:C | 7 | 2.0 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 3 | 2.0 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 4 | 2.0 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 5 | 2.0 |
| (1,125) | 1:C:763:LEU:C | 1:C:764:SER:N | 1:C:764:SER:CA | 1:C:764:SER:C | 13 | 2.0 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 6 | 2.0 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 12 | 2.0 |
| (1,99) | 1:C:750:ASN:C | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 4 | 1.9 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 10 | 1.9 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 10 | 1.9 |
| (1,66) | 1:C:713:SER:N | 1:C:713:SER:CA | 1:C:713:SER:C | 1:C:714:PRO:N | 1 | 1.9 |
| (1,58) | 1:C:707:ARG:N | 1:C:707:ARG:CA | 1:C:707:ARG:C | 1:C:708:VAL:N | 12 | 1.9 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 3 | 1.9 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 5 | 1.9 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 2 | 1.9 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 13 | 1.9 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 9 | 1.9 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 7 | 1.9 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 2 | 1.9 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 5 | 1.9 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 9 | 1.9 |
| (1,164) | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 1:C:789:GLY:N | 7 | 1.9 |
| (1,150) | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 1:C:782:VAL:N | 11 | 1.9 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 8 | 1.9 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 13 | 1.9 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 15 | 1.9 |
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 3 | 1.9 |
| (1,117) | 1:C:759:ASP:C | 1:C:760:LEU:N | 1:C:760:LEU:CA | 1:C:760:LEU:C | 13 | 1.9 |
| (1,113) | 1:C:757:TRP:C | 1:C:758:ASP:N | 1:C:758:ASP:CA | 1:C:758:ASP:C | 14 | 1.9 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 12 | 1.9 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 15 | 1.9 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 9 | 1.8 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 13 | 1.8 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 4 | 1.8 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 6 | 1.8 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 5 | 1.8 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 9 | 1.8 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 12 | 1.8 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1 | 1.8 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 14 | 1.8 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 14 | 1.8 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 6 | 1.8 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 4 | 1.8 |
| (1,254) | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 1:C:839:ALA:N | 7 | 1.8 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 9 | 1.8 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 11 | 1.8 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 14 | 1.8 |
| (1,228) | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 1:C:821:ALA:N | 5 | 1.8 |
| (1,21) | 1:C:688:ILE:C | 1:C:689:VAL:N | 1:C:689:VAL:CA | 1:C:689:VAL:C | 2 | 1.8 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 4 | 1.8 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 6 | 1.8 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 1 | 1.8 |
| (1,175) | 1:C:793:LEU:C | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1 | 1.8 |
| (1,173) | 1:C:792:ALA:C | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 14 | 1.8 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 11 | 1.8 |
| (1,165) | 1:C:788:ARG:C | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 7 | 1.8 |
| (1,162) | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 1:C:788:ARG:N | 12 | 1.8 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 2 | 1.8 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 11 | 1.8 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 4 | 1.8 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 5 | 1.8 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 6 | 1.8 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 6 | 1.8 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 3 | 1.8 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 6 | 1.8 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 15 | 1.8 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 5 | 1.8 |
| (1,121) | 1:C:761:ARG:C | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 1 | 1.8 |
| (1,121) | 1:C:761:ARG:C | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 8 | 1.8 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 1 | 1.8 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 2 | 1.8 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 3 | 1.7 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 5 | 1.7 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 13 | 1.7 |
| (1,67) | 1:C:714:PRO:C | 1:C:715:LEU:N | 1:C:715:LEU:CA | 1:C:715:LEU:C | 1 | 1.7 |
| (1,67) | 1:C:714:PRO:C | 1:C:715:LEU:N | 1:C:715:LEU:CA | 1:C:715:LEU:C | 8 | 1.7 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 3 | 1.7 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 6 | 1.7 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 14 | 1.7 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 15 | 1.7 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 8 | 1.7 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 12 | 1.7 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 15 | 1.7 |
| (1,28) | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 1:C:693:ILE:N | 15 | 1.7 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 11 | 1.7 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 13 | 1.7 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 15 | 1.7 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 12 | 1.7 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 11 | 1.7 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,160) | 1:C:786:GLY:N | 1:C:786:GLY:CA | 1:C:786:GLY:C | 1:C:787:ARG:N | 11 | 1.7 |
| (1,145) | 1:C:778:VAL:C | 1:C:779:THR:N | 1:C:779:THR:CA | 1:C:779:THR:C | 8 | 1.7 |
| (1,131) | 1:C:771:LEU:C | 1:C:772:ARG:N | 1:C:772:ARG:CA | 1:C:772:ARG:C | 14 | 1.7 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 9 | 1.7 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 3 | 1.7 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 9 | 1.7 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 15 | 1.7 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 1 | 1.7 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 10 | 1.7 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 13 | 1.7 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 4 | 1.6 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 11 | 1.6 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 4 | 1.6 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 4 | 1.6 |
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 14 | 1.6 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 15 | 1.6 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 13 | 1.6 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 15 | 1.6 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 6 | 1.6 |
| (1,43) | 1:C:699:PHE:C | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 12 | 1.6 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 2 | 1.6 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 13 | 1.6 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 5 | 1.6 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 14 | 1.6 |
| (1,4) | 1:C:680:TRP:N | 1:C:680:TRP:CA | 1:C:680:TRP:C | 1:C:681:TYR:N | 4 | 1.6 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 12 | 1.6 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 13 | 1.6 |
| (1,254) | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 1:C:839:ALA:N | 9 | 1.6 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 12 | 1.6 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 5 | 1.6 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 5 | 1.6 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 10 | 1.6 |
| (1,228) | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 1:C:821:ALA:N | 9 | 1.6 |
| (1,228) | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 1:C:821:ALA:N | 15 | 1.6 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 3 | 1.6 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 15 | 1.6 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 8 | 1.6 |
| (1,173) | 1:C:792:ALA:C | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 5 | 1.6 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 4 | 1.6 |
| (1,170) | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 1:C:792:ALA:N | 13 | 1.6 |
| (1,162) | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 1:C:788:ARG:N | 9 | 1.6 |
| (1,151) | 1:C:781:ILE:C | 1:C:782:VAL:N | 1:C:782:VAL:CA | 1:C:782:VAL:C | 6 | 1.6 |
| (1,144) | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 1:C:779:THR:N | 12 | 1.6 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 8 | 1.6 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 12 | 1.6 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 15 | 1.6 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 2 | 1.6 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 14 | 1.6 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 11 | 1.6 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 3 | 1.6 |
| (1,134) | 1:C:773:ASP:N | 1:C:773:ASP:CA | 1:C:773:ASP:C | 1:C:774:LEU:N | 7 | 1.6 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,124) | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1:C:764:SER:N | 1 | 1.6 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 15 | 1.6 |
| (1,109) | 1:C:755:LEU:C | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 14 | 1.6 |
| (1,106) | 1:C:754:ALA:N | 1:C:754:ALA:CA | 1:C:754:ALA:C | 1:C:755:LEU:N | 2 | 1.6 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 6 | 1.6 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 11 | 1.6 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 4 | 1.6 |
| (1,79) | 1:C:740:ARG:C | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 5 | 1.5 |
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 5 | 1.5 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 5 | 1.5 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 6 | 1.5 |
| (1,56) | 1:C:706:ASN:N | 1:C:706:ASN:CA | 1:C:706:ASN:C | 1:C:707:ARG:N | 11 | 1.5 |
| (1,55) | 1:C:705:VAL:C | 1:C:706:ASN:N | 1:C:706:ASN:CA | 1:C:706:ASN:C | 2 | 1.5 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 8 | 1.5 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 9 | 1.5 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 7 | 1.5 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 2 | 1.5 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 13 | 1.5 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 2 | 1.5 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 9 | 1.5 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 5 | 1.5 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 6 | 1.5 |
| (1,183) | 1:C:797:TRP:C | 1:C:798:ASN:N | 1:C:798:ASN:CA | 1:C:798:ASN:C | 1 | 1.5 |
| (1,176) | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1:C:795:TYR:N | 7 | 1.5 |
| (1,176) | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1:C:795:TYR:N | 13 | 1.5 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 1 | 1.5 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 14 | 1.5 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 11 | 1.5 |
| (1,164) | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 1:C:789:GLY:N | 1 | 1.5 |
| (1,163) | 1:C:787:ARG:C | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 12 | 1.5 |
| (1,161) | 1:C:786:GLY:C | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 9 | 1.5 |
| (1,150) | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 1:C:782:VAL:N | 4 | 1.5 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 14 | 1.5 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 4 | 1.5 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 9 | 1.5 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 11 | 1.5 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 2 | 1.5 |
| (1,121) | 1:C:761:ARG:C | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 7 | 1.5 |
| (1,121) | 1:C:761:ARG:C | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 11 | 1.5 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 6 | 1.5 |
| (1,111) | 1:C:756:ILE:C | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 6 | 1.5 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 5 | 1.5 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 14 | 1.5 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 6 | 1.4 |
| (1,83) | 1:C:742:ARG:C | 1:C:743:ASP:N | 1:C:743:ASP:CA | 1:C:743:ASP:C | 14 | 1.4 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 5 | 1.4 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 7 | 1.4 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 2 | 1.4 |
| (1,80) | 1:C:741:ASP:N | 1:C:741:ASP:CA | 1:C:741:ASP:C | 1:C:742:ARG:N | 4 | 1.4 |
| (1,7) | 1:C:681:TYR:C | 1:C:682:ILE:N | 1:C:682:ILE:CA | 1:C:682:ILE:C | 4 | 1.4 |
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 6 | 1.4 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,63) | 1:C:709:ARG:C | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 15 | 1.4 |
| (1,61) | 1:C:708:VAL:C | 1:C:709:ARG:N | 1:C:709:ARG:CA | 1:C:709:ARG:C | 2 | 1.4 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 5 | 1.4 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 10 | 1.4 |
| (1,58) | 1:C:707:ARG:N | 1:C:707:ARG:CA | 1:C:707:ARG:C | 1:C:708:VAL:N | 11 | 1.4 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 13 | 1.4 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 12 | 1.4 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 11 | 1.4 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 15 | 1.4 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 4 | 1.4 |
| (1,29) | 1:C:692:LEU:C | 1:C:693:ILE:N | 1:C:693:ILE:CA | 1:C:693:ILE:C | 6 | 1.4 |
| (1,28) | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 1:C:693:ILE:N | 12 | 1.4 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 9 | 1.4 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 11 | 1.4 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 1 | 1.4 |
| (1,253) | 1:C:837:SER:C | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 12 | 1.4 |
| (1,246) | 1:C:834:GLN:N | 1:C:834:GLN:CA | 1:C:834:GLN:C | 1:C:835:GLY:N | 12 | 1.4 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 3 | 1.4 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 2 | 1.4 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 8 | 1.4 |
| (1,20) | 1:C:688:ILE:N | 1:C:688:ILE:CA | 1:C:688:ILE:C | 1:C:689:VAL:N | 2 | 1.4 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 4 | 1.4 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 11 | 1.4 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 5 | 1.4 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 5 | 1.4 |
| (1,165) | 1:C:788:ARG:C | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1 | 1.4 |
| (1,151) | 1:C:781:ILE:C | 1:C:782:VAL:N | 1:C:782:VAL:CA | 1:C:782:VAL:C | 11 | 1.4 |
| (1,145) | 1:C:778:VAL:C | 1:C:779:THR:N | 1:C:779:THR:CA | 1:C:779:THR:C | 2 | 1.4 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 2 | 1.4 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 11 | 1.4 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 10 | 1.4 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 13 | 1.4 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 5 | 1.4 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 13 | 1.4 |
| (1,138) | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 1:C:776:LEU:N | 1 | 1.4 |
| (1,136) | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 1:C:775:LEU:N | 14 | 1.4 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 1 | 1.4 |
| (1,116) | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 1:C:760:LEU:N | 1 | 1.4 |
| (1,116) | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 1:C:760:LEU:N | 7 | 1.4 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 12 | 1.4 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 15 | 1.4 |
| (1,110) | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 1:C:757:TRP:N | 9 | 1.4 |
| (1,107) | 1:C:754:ALA:C | 1:C:755:LEU:N | 1:C:755:LEU:CA | 1:C:755:LEU:C | 2 | 1.4 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 2 | 1.4 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 12 | 1.4 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 7 | 1.4 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 9 | 1.4 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 3 | 1.4 |
| (1,98) | 1:C:750:ASN:N | 1:C:750:ASN:CA | 1:C:750:ASN:C | 1:C:751:GLY:N | 7 | 1.3 |
| (1,85) | 1:C:743:ASP:C | 1:C:744:ARG:N | 1:C:744:ARG:CA | 1:C:744:ARG:C | 9 | 1.3 |
| (1,81) | 1:C:741:ASP:C | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 15 | 1.3 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,78) | 1:C:740:ARG:N | 1:C:740:ARG:CA | 1:C:740:ARG:C | 1:C:741:ASP:N | 9 | 1.3 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 11 | 1.3 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 9 | 1.3 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 6 | 1.3 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 7 | 1.3 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 9 | 1.3 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 11 | 1.3 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 15 | 1.3 |
| (1,41) | 1:C:698:VAL:C | 1:C:699:PHE:N | 1:C:699:PHE:CA | 1:C:699:PHE:C | 10 | 1.3 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 10 | 1.3 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 10 | 1.3 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 7 | 1.3 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 8 | 1.3 |
| (1,253) | 1:C:837:SER:C | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 13 | 1.3 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 6 | 1.3 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 13 | 1.3 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 14 | 1.3 |
| (1,199) | 1:C:805:GLN:C | 1:C:806:GLU:N | 1:C:806:GLU:CA | 1:C:806:GLU:C | 7 | 1.3 |
| (1,190) | 1:C:801:GLN:N | 1:C:801:GLN:CA | 1:C:801:GLN:C | 1:C:802:TYR:N | 13 | 1.3 |
| (1,178) | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 1:C:796:TRP:N | 5 | 1.3 |
| (1,178) | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 1:C:796:TRP:N | 8 | 1.3 |
| (1,174) | 1:C:793:LEU:N | 1:C:793:LEU:CA | 1:C:793:LEU:C | 1:C:794:LYS:N | 1 | 1.3 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 10 | 1.3 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 12 | 1.3 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 14 | 1.3 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 12 | 1.3 |
| (1,164) | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 1:C:789:GLY:N | 8 | 1.3 |
| (1,162) | 1:C:787:ARG:N | 1:C:787:ARG:CA | 1:C:787:ARG:C | 1:C:788:ARG:N | 14 | 1.3 |
| (1,159) | 1:C:785:LEU:C | 1:C:786:GLY:N | 1:C:786:GLY:CA | 1:C:786:GLY:C | 13 | 1.3 |
| (1,151) | 1:C:781:ILE:C | 1:C:782:VAL:N | 1:C:782:VAL:CA | 1:C:782:VAL:C | 3 | 1.3 |
| (1,150) | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 1:C:782:VAL:N | 5 | 1.3 |
| (1,150) | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 1:C:782:VAL:N | 15 | 1.3 |
| (1,145) | 1:C:778:VAL:C | 1:C:779:THR:N | 1:C:779:THR:CA | 1:C:779:THR:C | 10 | 1.3 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 3 | 1.3 |
| (1,142) | 1:C:777:ILE:N | 1:C:777:ILE:CA | 1:C:777:ILE:C | 1:C:778:VAL:N | 5 | 1.3 |
| (1,139) | 1:C:775:LEU:C | 1:C:776:LEU:N | 1:C:776:LEU:CA | 1:C:776:LEU:C | 12 | 1.3 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 8 | 1.3 |
| (1,115) | 1:C:758:ASP:C | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 10 | 1.3 |
| (1,114) | 1:C:758:ASP:N | 1:C:758:ASP:CA | 1:C:758:ASP:C | 1:C:759:ASP:N | 8 | 1.3 |
| (1,113) | 1:C:757:TRP:C | 1:C:758:ASP:N | 1:C:758:ASP:CA | 1:C:758:ASP:C | 12 | 1.3 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 2 | 1.2 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 3 | 1.2 |
| (1,7) | 1:C:681:TYR:C | 1:C:682:ILE:N | 1:C:682:ILE:CA | 1:C:682:ILE:C | 9 | 1.2 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 7 | 1.2 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 9 | 1.2 |
| (1,59) | 1:C:707:ARG:C | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 2 | 1.2 |
| (1,40) | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 1:C:699:PHE:N | 9 | 1.2 |
| (1,38) | 1:C:697:ILE:N | 1:C:697:ILE:CA | 1:C:697:ILE:C | 1:C:698:VAL:N | 14 | 1.2 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 1 | 1.2 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 11 | 1.2 |
| (1,35) | 1:C:695:LEU:C | 1:C:696:ARG:N | 1:C:696:ARG:CA | 1:C:696:ARG:C | 13 | 1.2 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 1 | 1.2 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 13 | 1.2 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 14 | 1.2 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 14 | 1.2 |
| (1,254) | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 1:C:839:ALA:N | 12 | 1.2 |
| (1,253) | 1:C:837:SER:C | 1:C:838:ARG:N | 1:C:838:ARG:CA | 1:C:838:ARG:C | 15 | 1.2 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 4 | 1.2 |
| (1,246) | 1:C:834:GLN:N | 1:C:834:GLN:CA | 1:C:834:GLN:C | 1:C:835:GLY:N | 2 | 1.2 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 7 | 1.2 |
| (1,231) | 1:C:826:THR:C | 1:C:827:ASP:N | 1:C:827:ASP:CA | 1:C:827:ASP:C | 15 | 1.2 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 15 | 1.2 |
| (1,223) | 1:C:817:ALA:C | 1:C:818:THR:N | 1:C:818:THR:CA | 1:C:818:THR:C | 5 | 1.2 |
| (1,222) | 1:C:817:ALA:N | 1:C:817:ALA:CA | 1:C:817:ALA:C | 1:C:818:THR:N | 5 | 1.2 |
| (1,199) | 1:C:805:GLN:C | 1:C:806:GLU:N | 1:C:806:GLU:CA | 1:C:806:GLU:C | 10 | 1.2 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 11 | 1.2 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 15 | 1.2 |
| (1,186) | 1:C:799:LEU:N | 1:C:799:LEU:CA | 1:C:799:LEU:C | 1:C:800:LEU:N | 11 | 1.2 |
| (1,183) | 1:C:797:TRP:C | 1:C:798:ASN:N | 1:C:798:ASN:CA | 1:C:798:ASN:C | 14 | 1.2 |
| (1,179) | 1:C:795:TYR:C | 1:C:796:TRP:N | 1:C:796:TRP:CA | 1:C:796:TRP:C | 7 | 1.2 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 12 | 1.2 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 5 | 1.2 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 6 | 1.2 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 7 | 1.2 |
| (1,163) | 1:C:787:ARG:C | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 9 | 1.2 |
| (1,163) | 1:C:787:ARG:C | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 14 | 1.2 |
| (1,144) | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 1:C:779:THR:N | 9 | 1.2 |
| (1,144) | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 1:C:779:THR:N | 11 | 1.2 |
| (1,143) | 1:C:777:ILE:C | 1:C:778:VAL:N | 1:C:778:VAL:CA | 1:C:778:VAL:C | 6 | 1.2 |
| (1,138) | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 1:C:776:LEU:N | 11 | 1.2 |
| (1,135) | 1:C:773:ASP:C | 1:C:774:LEU:N | 1:C:774:LEU:CA | 1:C:774:LEU:C | 7 | 1.2 |
| (1,131) | 1:C:771:LEU:C | 1:C:772:ARG:N | 1:C:772:ARG:CA | 1:C:772:ARG:C | 2 | 1.2 |
| (1,131) | 1:C:771:LEU:C | 1:C:772:ARG:N | 1:C:772:ARG:CA | 1:C:772:ARG:C | 12 | 1.2 |
| (1,130) | 1:C:771:LEU:N | 1:C:771:LEU:CA | 1:C:771:LEU:C | 1:C:772:ARG:N | 8 | 1.2 |
| (1,120) | 1:C:761:ARG:N | 1:C:761:ARG:CA | 1:C:761:ARG:C | 1:C:762:SER:N | 7 | 1.2 |
| (1,117) | 1:C:759:ASP:C | 1:C:760:LEU:N | 1:C:760:LEU:CA | 1:C:760:LEU:C | 1 | 1.2 |
| (1,115) | 1:C:758:ASP:C | 1:C:759:ASP:N | 1:C:759:ASP:CA | 1:C:759:ASP:C | 9 | 1.2 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 4 | 1.2 |
| (1,110) | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 1:C:757:TRP:N | 15 | 1.2 |
| (1,102) | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 1:C:753:LEU:N | 3 | 1.2 |
| (1,102) | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 1:C:753:LEU:N | 12 | 1.2 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 1 | 1.2 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 3 | 1.2 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 5 | 1.2 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 6 | 1.2 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 10 | 1.2 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 3 | 1.2 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 5 | 1.2 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 1 | 1.1 |
| (1,93) | 1:C:747:ARG:C | 1:C:748:LEU:N | 1:C:748:LEU:CA | 1:C:748:LEU:C | 11 | 1.1 |
| (1,9) | 1:C:682:ILE:C | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 4 | 1.1 |
| (1,82) | 1:C:742:ARG:N | 1:C:742:ARG:CA | 1:C:742:ARG:C | 1:C:743:ASP:N | 12 | 1.1 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,67) | 1:C:714:PRO:C | 1:C:715:LEU:N | 1:C:715:LEU:CA | 1:C:715:LEU:C | 2 | 1.1 |
| (1,65) | 1:C:712:TYR:C | 1:C:713:SER:N | 1:C:713:SER:CA | 1:C:713:SER:C | 2 | 1.1 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 12 | 1.1 |
| (1,64) | 1:C:710:GLN:N | 1:C:710:GLN:CA | 1:C:710:GLN:C | 1:C:711:GLY:N | 15 | 1.1 |
| (1,60) | 1:C:708:VAL:N | 1:C:708:VAL:CA | 1:C:708:VAL:C | 1:C:709:ARG:N | 8 | 1.1 |
| (1,58) | 1:C:707:ARG:N | 1:C:707:ARG:CA | 1:C:707:ARG:C | 1:C:708:VAL:N | 10 | 1.1 |
| (1,49) | 1:C:702:LEU:C | 1:C:703:SER:N | 1:C:703:SER:CA | 1:C:703:SER:C | 5 | 1.1 |
| (1,48) | 1:C:702:LEU:N | 1:C:702:LEU:CA | 1:C:702:LEU:C | 1:C:703:SER:N | 5 | 1.1 |
| (1,44) | 1:C:700:ALA:N | 1:C:700:ALA:CA | 1:C:700:ALA:C | 1:C:701:VAL:N | 10 | 1.1 |
| (1,39) | 1:C:697:ILE:C | 1:C:698:VAL:N | 1:C:698:VAL:CA | 1:C:698:VAL:C | 13 | 1.1 |
| (1,28) | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 1:C:693:ILE:N | 13 | 1.1 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 7 | 1.1 |
| (1,27) | 1:C:691:SER:C | 1:C:692:LEU:N | 1:C:692:LEU:CA | 1:C:692:LEU:C | 8 | 1.1 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 4 | 1.1 |
| (1,26) | 1:C:691:SER:N | 1:C:691:SER:CA | 1:C:691:SER:C | 1:C:692:LEU:N | 7 | 1.1 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 1 | 1.1 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 3 | 1.1 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 11 | 1.1 |
| (1,252) | 1:C:837:SER:N | 1:C:837:SER:CA | 1:C:837:SER:C | 1:C:838:ARG:N | 14 | 1.1 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 1 | 1.1 |
| (1,230) | 1:C:826:THR:N | 1:C:826:THR:CA | 1:C:826:THR:C | 1:C:827:ASP:N | 11 | 1.1 |
| (1,227) | 1:C:819:ALA:C | 1:C:820:ILE:N | 1:C:820:ILE:CA | 1:C:820:ILE:C | 11 | 1.1 |
| (1,222) | 1:C:817:ALA:N | 1:C:817:ALA:CA | 1:C:817:ALA:C | 1:C:818:THR:N | 10 | 1.1 |
| (1,218) | 1:C:815:LEU:N | 1:C:815:LEU:CA | 1:C:815:LEU:C | 1:C:816:ASN:N | 11 | 1.1 |
| (1,196) | 1:C:804:SER:N | 1:C:804:SER:CA | 1:C:804:SER:C | 1:C:805:GLN:N | 10 | 1.1 |
| (1,188) | 1:C:800:LEU:N | 1:C:800:LEU:CA | 1:C:800:LEU:C | 1:C:801:GLN:N | 5 | 1.1 |
| (1,183) | 1:C:797:TRP:C | 1:C:798:ASN:N | 1:C:798:ASN:CA | 1:C:798:ASN:C | 8 | 1.1 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 10 | 1.1 |
| (1,182) | 1:C:797:TRP:N | 1:C:797:TRP:CA | 1:C:797:TRP:C | 1:C:798:ASN:N | 14 | 1.1 |
| (1,178) | 1:C:795:TYR:N | 1:C:795:TYR:CA | 1:C:795:TYR:C | 1:C:796:TRP:N | 7 | 1.1 |
| (1,176) | 1:C:794:LYS:N | 1:C:794:LYS:CA | 1:C:794:LYS:C | 1:C:795:TYR:N | 14 | 1.1 |
| (1,171) | 1:C:791:GLU:C | 1:C:792:ALA:N | 1:C:792:ALA:CA | 1:C:792:ALA:C | 6 | 1.1 |
| (1,170) | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 1:C:792:ALA:N | 2 | 1.1 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 4 | 1.1 |
| (1,169) | 1:C:790:TRP:C | 1:C:791:GLU:N | 1:C:791:GLU:CA | 1:C:791:GLU:C | 9 | 1.1 |
| (1,167) | 1:C:789:GLY:C | 1:C:790:TRP:N | 1:C:790:TRP:CA | 1:C:790:TRP:C | 10 | 1.1 |
| (1,166) | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 1:C:790:TRP:N | 14 | 1.1 |
| (1,165) | 1:C:788:ARG:C | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 3 | 1.1 |
| (1,165) | 1:C:788:ARG:C | 1:C:789:GLY:N | 1:C:789:GLY:CA | 1:C:789:GLY:C | 8 | 1.1 |
| (1,163) | 1:C:787:ARG:C | 1:C:788:ARG:N | 1:C:788:ARG:CA | 1:C:788:ARG:C | 10 | 1.1 |
| (1,158) | 1:C:785:LEU:N | 1:C:785:LEU:CA | 1:C:785:LEU:C | 1:C:786:GLY:N | 7 | 1.1 |
| (1,149) | 1:C:780:ARG:C | 1:C:781:ILE:N | 1:C:781:ILE:CA | 1:C:781:ILE:C | 11 | 1.1 |
| (1,137) | 1:C:774:LEU:C | 1:C:775:LEU:N | 1:C:775:LEU:CA | 1:C:775:LEU:C | 2 | 1.1 |
| (1,13) | 1:C:684:ILE:C | 1:C:685:PHE:N | 1:C:685:PHE:CA | 1:C:685:PHE:C | 4 | 1.1 |
| (1,123) | 1:C:762:SER:C | 1:C:763:LEU:N | 1:C:763:LEU:CA | 1:C:763:LEU:C | 12 | 1.1 |
| (1,122) | 1:C:762:SER:N | 1:C:762:SER:CA | 1:C:762:SER:C | 1:C:763:LEU:N | 1 | 1.1 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 5 | 1.1 |
| (1,112) | 1:C:757:TRP:N | 1:C:757:TRP:CA | 1:C:757:TRP:C | 1:C:758:ASP:N | 8 | 1.1 |
| (1,109) | 1:C:755:LEU:C | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 3 | 1.1 |
| (1,109) | 1:C:755:LEU:C | 1:C:756:ILE:N | 1:C:756:ILE:CA | 1:C:756:ILE:C | 15 | 1.1 |
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 7 | 1.1 |

*Continued on next page...*

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,101) | 1:C:751:GLY:C | 1:C:752:SER:N | 1:C:752:SER:CA | 1:C:752:SER:C | 11 | 1.1 |
| (1,100) | 1:C:751:GLY:N | 1:C:751:GLY:CA | 1:C:751:GLY:C | 1:C:752:SER:N | 4 | 1.1 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 6 | 1.1 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 12 | 1.1 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 13 | 1.1 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 14 | 1.1 |
| (1,10) | 1:C:683:ARG:N | 1:C:683:ARG:CA | 1:C:683:ARG:C | 1:C:684:ILE:N | 15 | 1.1 |