# Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 11:58 PM EST

| | | |
|---|---|---|
| PDB ID | : | 2MXC |
| BMRB ID | : | 25402 |
| Title | : | Solution structure of the full length sorting nexin 3 |
| Authors | : | Lenoir, M.M.L.; Rajesh, S.S.R.; Gruenberg, J.J.G.; Overduin, M.M.O.; Kaur, J.J.K. |
| Deposited on | : | 2014-12-20 |

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

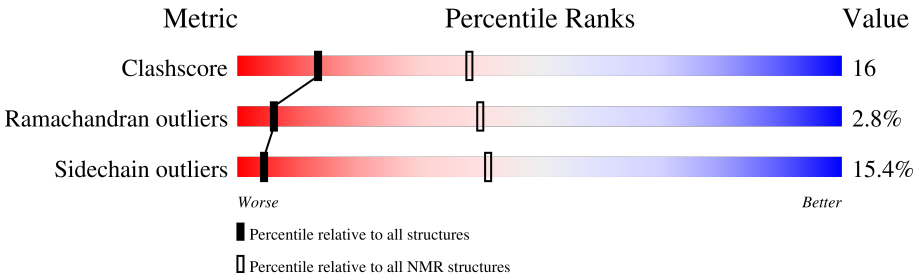
| | | |
|---|---|---|
| MolProbity | : | 4.02b-467 |
| Percentile statistics | : | 20231227.v01 (using entries in the PDB archive December 27th 2023) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| BMRB Restraints Analysis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

# 1 Overall quality at a glance (i)

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

The overall completeness of chemical shifts assignment is 88%.

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




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

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

| Mol | Chain | Length | Quality of chain |
|---|---|---|---|
| 1 | A | 172 | 42% 34% · 19% |

# 2 Ensemble composition and analysis

This entry contains 20 models. Model 18 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:22-A:160 (139) | 0.64 | 18 |

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 3 clusters and 4 single-model clusters were found.

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

# 3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2808 atoms, of which 1400 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Sorting nexin-3.

| Mol | Chain | Residues | Atoms | | | | | | Trace |
|---|---|---|---|---|---|---|---|---|---|
| 1 | A | 172 | Total | C | H | N | O | S | 0 |
| | | | 2808 | 888 | 1400 | 261 | 256 | 3 | |

There are 11 discrepancies between the modelled and reference sequences:

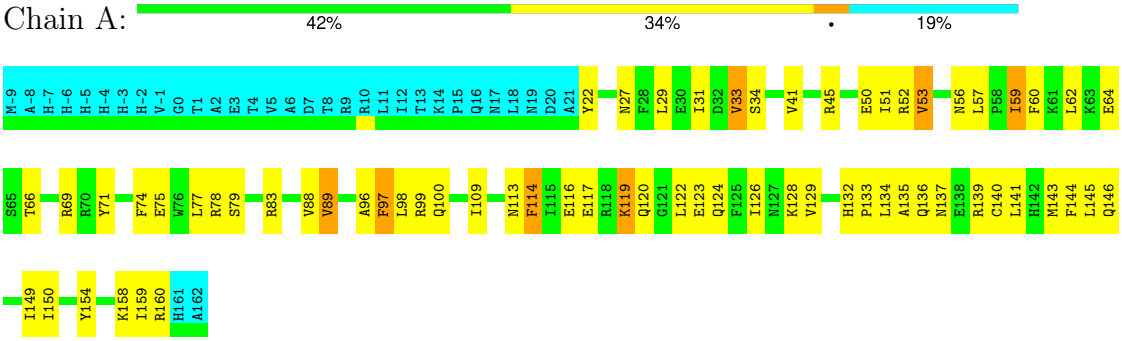
| Chain | Residue | Modelled | Actual | Comment | Reference |
|---|---|---|---|---|---|
| A | -9 | MET | - | expression tag | UNP O60493 |
| A | -8 | ALA | - | expression tag | UNP O60493 |
| A | -7 | HIS | - | expression tag | UNP O60493 |
| A | -6 | HIS | - | expression tag | UNP O60493 |
| A | -5 | HIS | - | expression tag | UNP O60493 |
| A | -4 | HIS | - | expression tag | UNP O60493 |
| A | -3 | HIS | - | expression tag | UNP O60493 |
| A | -2 | HIS | - | expression tag | UNP O60493 |
| A | -1 | VAL | - | expression tag | UNP O60493 |
| A | 0 | GLY | - | expression tag | UNP O60493 |
| A | 1 | THR | - | expression tag | UNP O60493 |

# 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: Sorting nexin-3

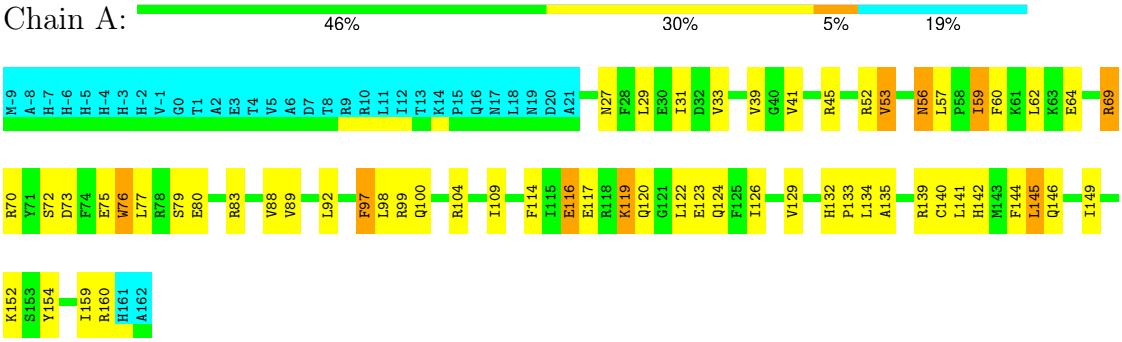



## 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

### 4.2.1 Score per residue for model 1

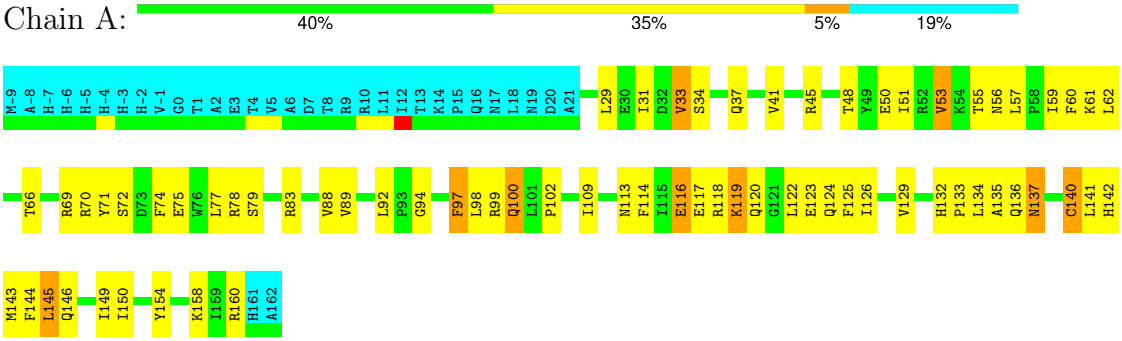
• Molecule 1: Sorting nexin-3



### 4.2.2 Score per residue for model 2

• Molecule 1: Sorting nexin-3

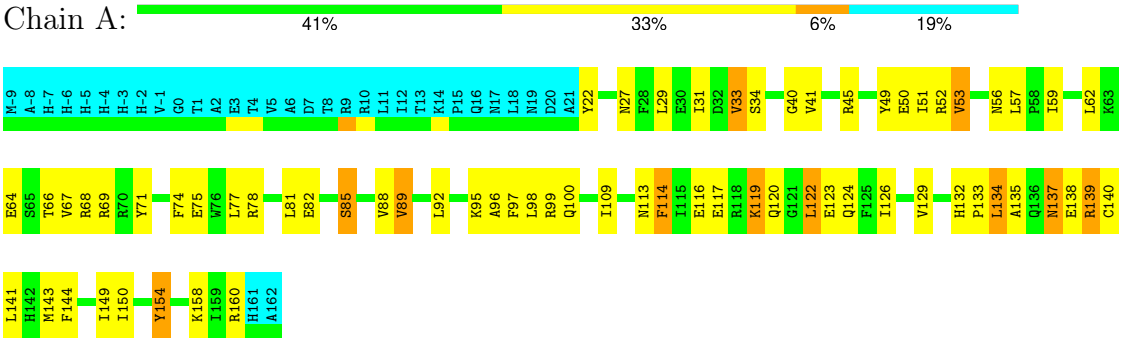
Chain A:




### 4.2.3 Score per residue for model 3

• Molecule 1: Sorting nexin-3

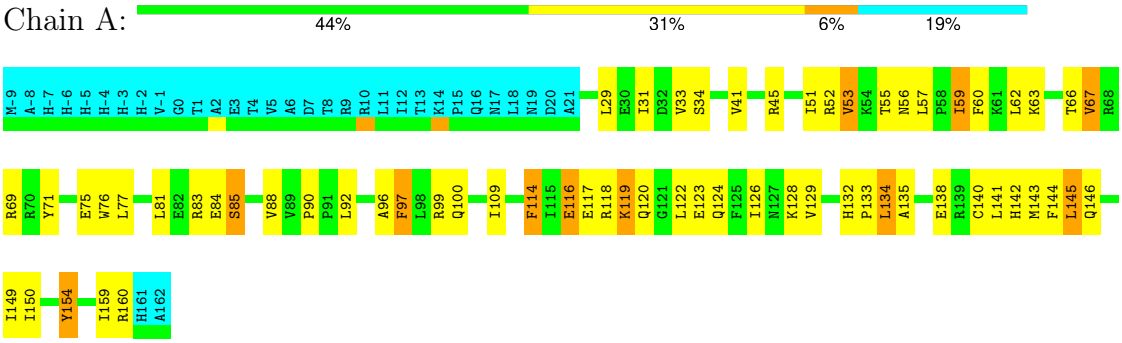
Chain A:




### 4.2.4 Score per residue for model 4

• Molecule 1: Sorting nexin-3

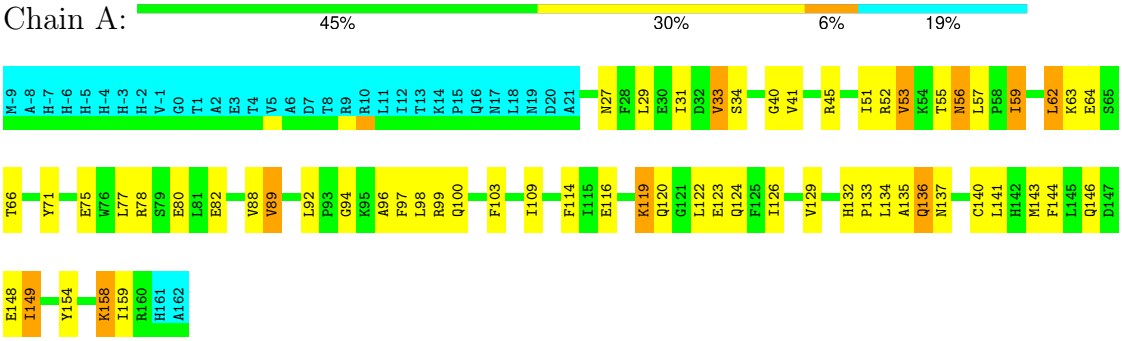
Chain A:



### 4.2.5 Score per residue for model 5

• Molecule 1: Sorting nexin-3

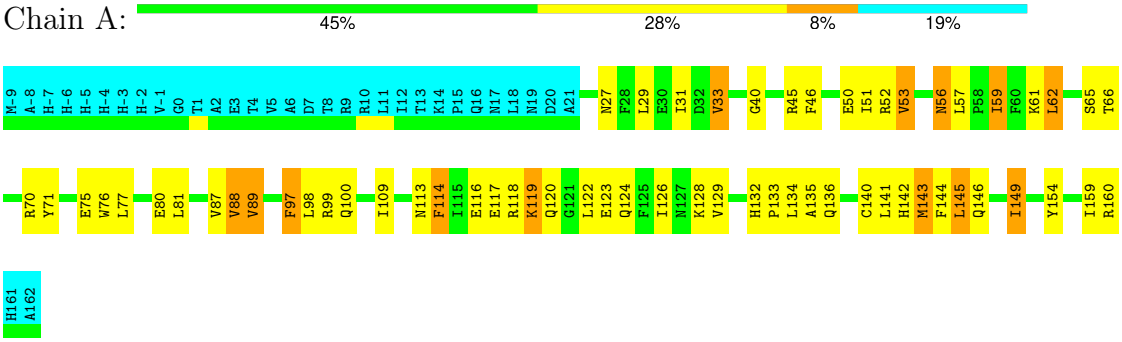
Chain A:




### 4.2.6 Score per residue for model 6

• Molecule 1: Sorting nexin-3

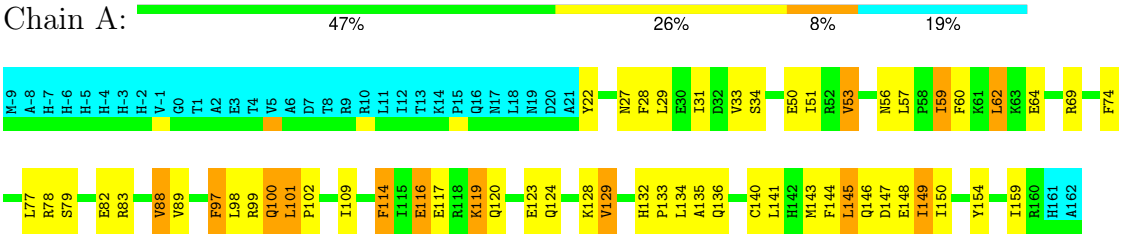
Chain A:




### 4.2.7 Score per residue for model 7

• Molecule 1: Sorting nexin-3

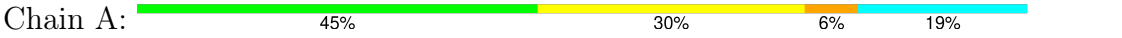
Chain A:

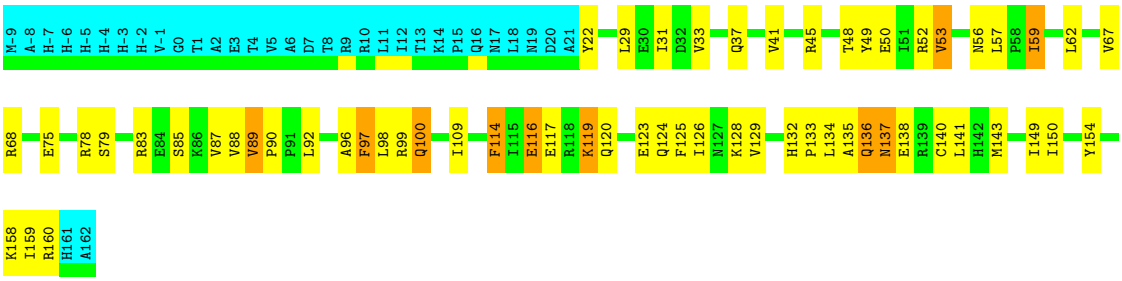



### 4.2.8 Score per residue for model 8

• Molecule 1: Sorting nexin-3

Chain A:

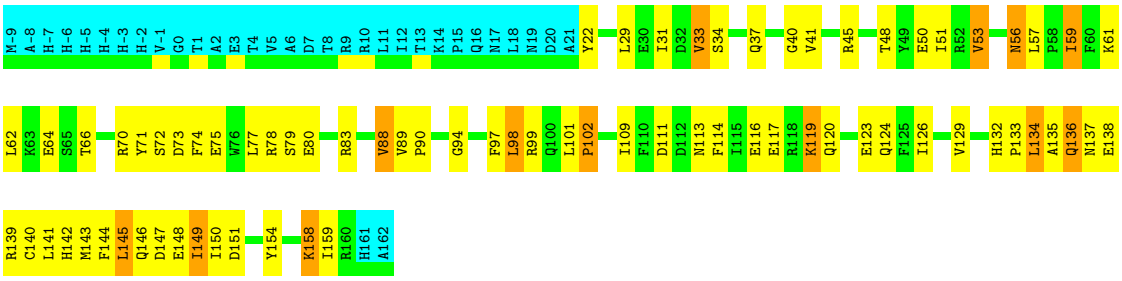





### 4.2.9 Score per residue for model 9

• Molecule 1: Sorting nexin-3

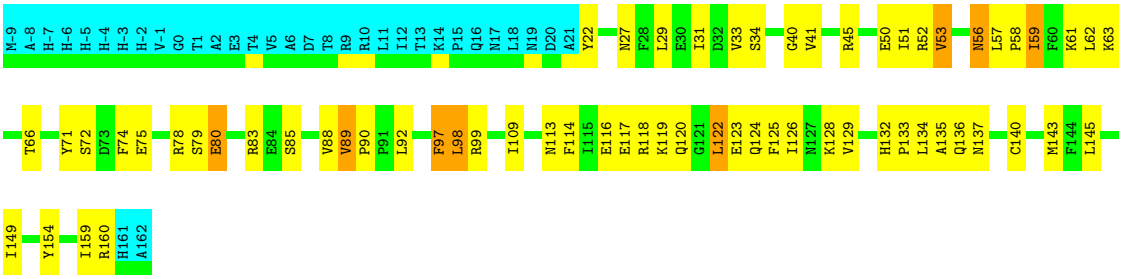
Chain A:


### 4.2.10 Score per residue for model 10

• Molecule 1: Sorting nexin-3

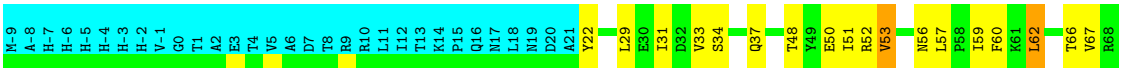
Chain A:

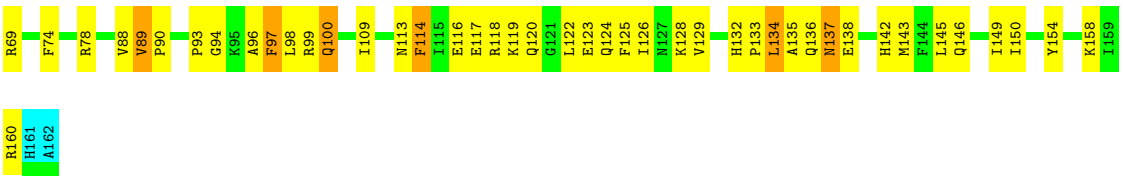




### 4.2.11 Score per residue for model 11

• Molecule 1: Sorting nexin-3

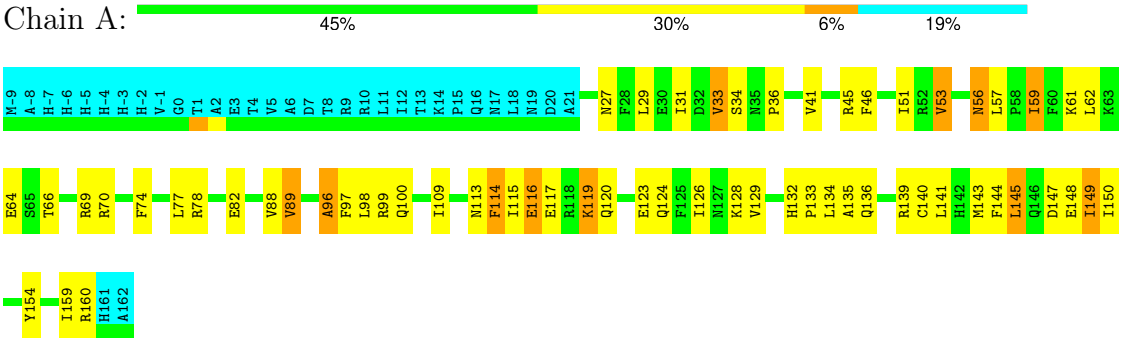
Chain A:



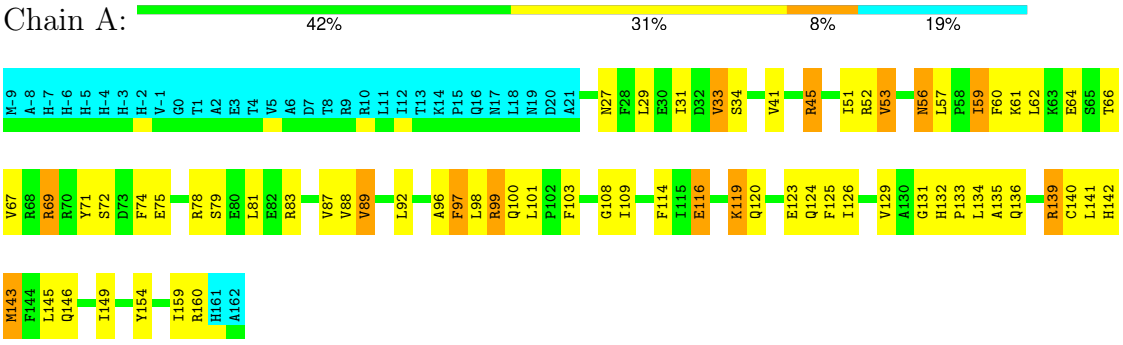

### 4.2.12 Score per residue for model 12

• Molecule 1: Sorting nexin-3



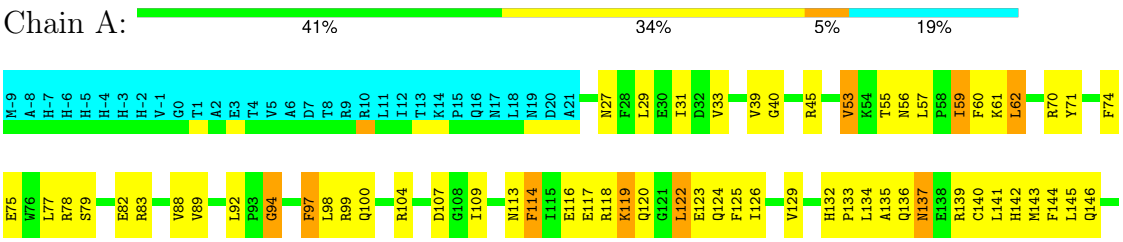

### 4.2.13 Score per residue for model 13

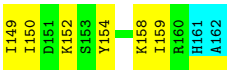
• Molecule 1: Sorting nexin-3




### 4.2.14 Score per residue for model 14

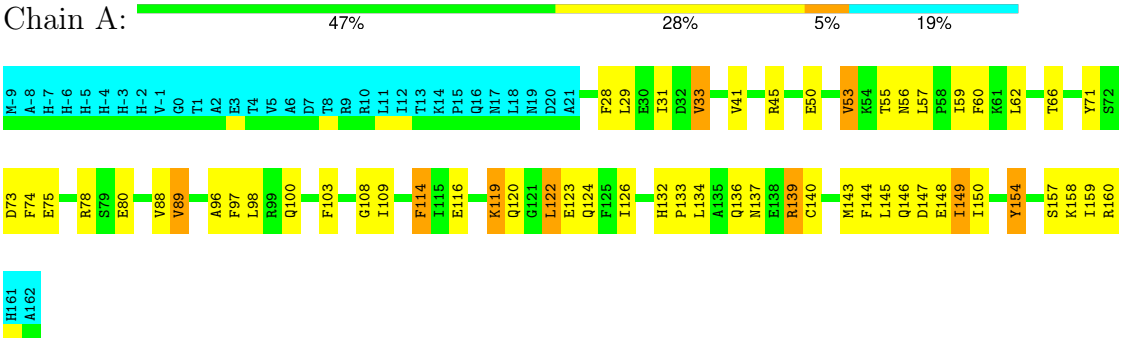
• Molecule 1: Sorting nexin-3





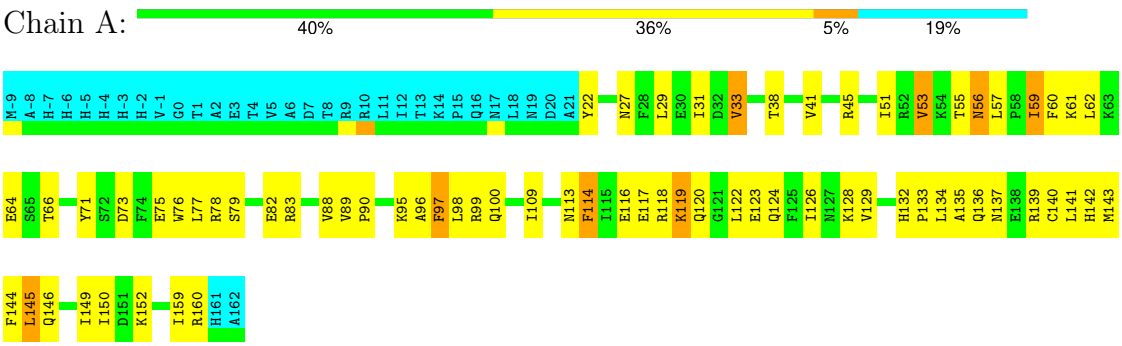

### 4.2.15 Score per residue for model 15

• Molecule 1: Sorting nexin-3



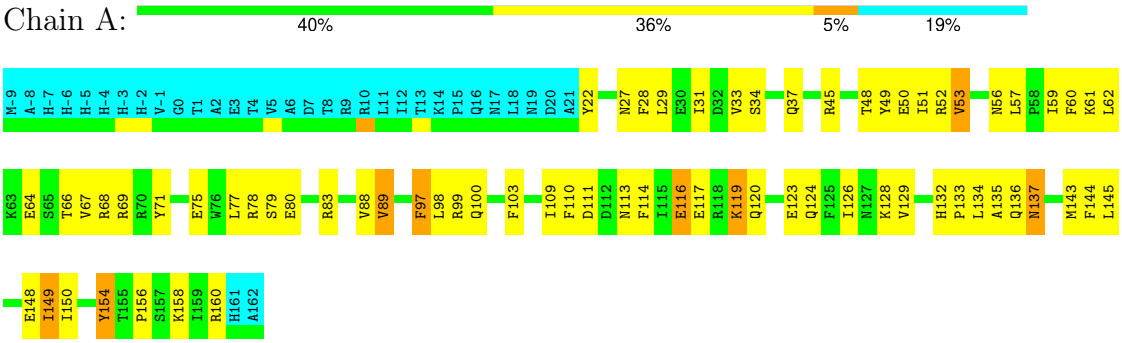

### 4.2.16 Score per residue for model 16

• Molecule 1: Sorting nexin-3




### 4.2.17 Score per residue for model 17

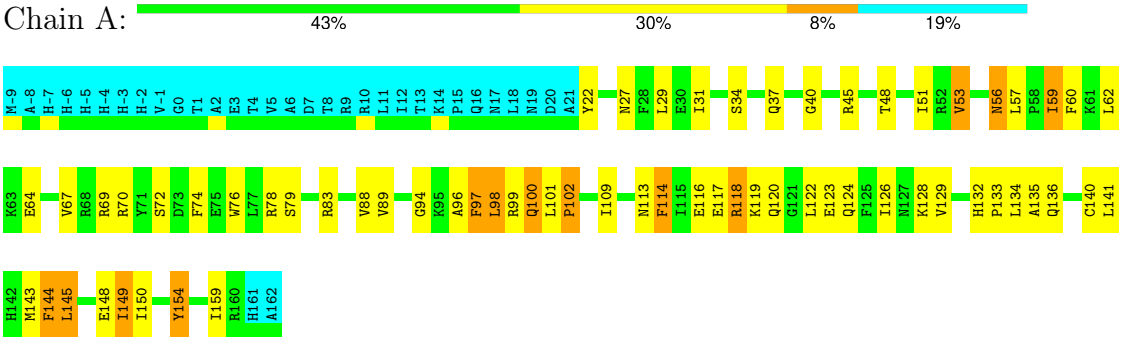
• Molecule 1: Sorting nexin-3



### 4.2.18 Score per residue for model 18 (medoid)

• Molecule 1: Sorting nexin-3

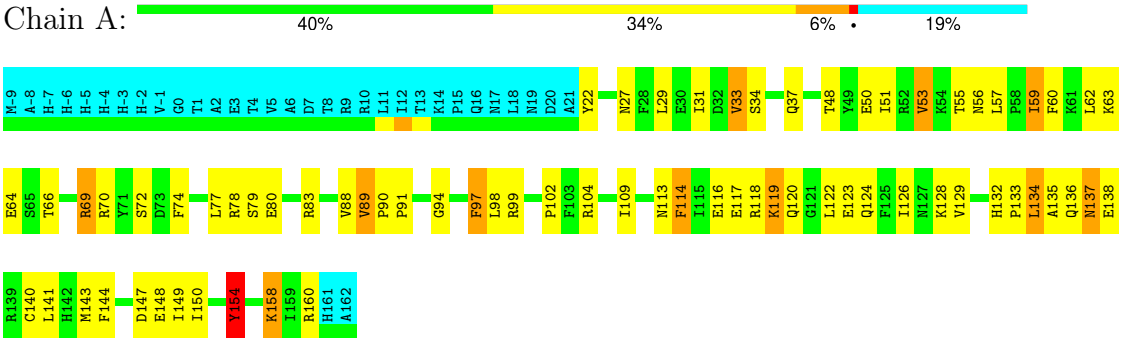
Chain A:




### 4.2.19 Score per residue for model 19

• Molecule 1: Sorting nexin-3

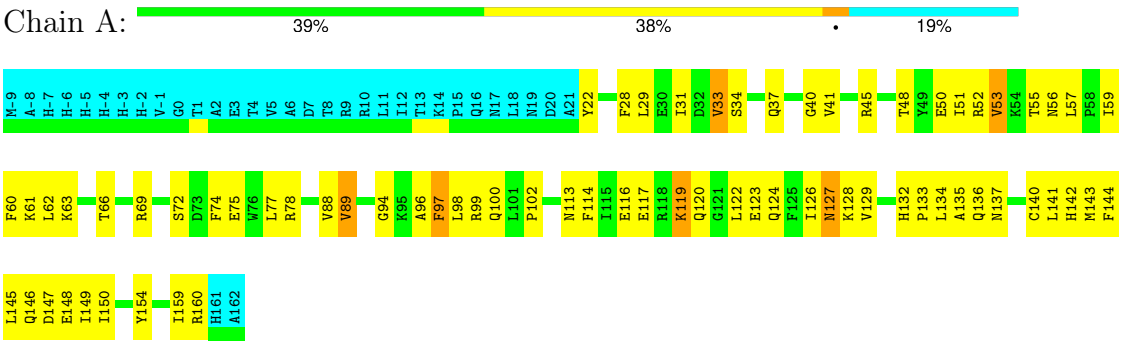
Chain A:




### 4.2.20 Score per residue for model 20

• Molecule 1: Sorting nexin-3

Chain A:



# 5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 100 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

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

| Software name | Classification | Version |
|---|---|---|
| CcpNmr Analysis | structure solution | 2.2 |
| CcpNmr Analysis | structure solution | 2.2 |
| CcpNmr Analysis | structure solution | 2.2 |
| CcpNmr Analysis | structure solution | 2.2 |
| ARIA | refinement | |

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

| Chemical shift file(s) | working_cs.cif |
|---|---|
| Number of chemical shift lists | 1 |
| Total number of shifts | 2071 |
| Number of shifts mapped to atoms | 2071 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 88% |

# 6 Model quality

## 6.1 Standard geometry

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 6.2 Too-close contacts

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|---|---|---|---|---|---|
| 1 | A | 1146 | 1146 | 1144 | 36±4 |
| All | All | 22920 | 22920 | 22880 | 730 |

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 16.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:140:CYS:HA | 1:A:143:MET:SD | 0.70 | 2.26 | 6 | 13 |
| 1:A:69:ARG:NH1 | 1:A:144:PHE:HA | 0.70 | 2.01 | 18 | 2 |
| 1:A:137:ASN:O | 1:A:158:LYS:HB3 | 0.68 | 1.89 | 9 | 3 |
| 1:A:98:LEU:HD22 | 1:A:98:LEU:H | 0.68 | 1.49 | 18 | 18 |
| 1:A:109:ILE:HA | 1:A:114:PHE:CD2 | 0.68 | 2.24 | 19 | 18 |
| 1:A:132:HIS:CG | 1:A:133:PRO:HD2 | 0.67 | 2.24 | 3 | 20 |
| 1:A:59:ILE:HG13 | 1:A:159:ILE:HG21 | 0.67 | 1.66 | 10 | 14 |
| 1:A:120:GLN:O | 1:A:124:GLN:HG2 | 0.67 | 1.90 | 6 | 20 |
| 1:A:143:MET:SD | 1:A:150:ILE:HG23 | 0.65 | 2.32 | 18 | 1 |
| 1:A:77:LEU:HG | 1:A:144:PHE:CD2 | 0.64 | 2.27 | 1 | 10 |
| 1:A:140:CYS:O | 1:A:143:MET:HG2 | 0.63 | 1.94 | 18 | 14 |
| 1:A:60:PHE:CZ | 1:A:145:LEU:HD13 | 0.62 | 2.28 | 13 | 2 |
| 1:A:79:SER:O | 1:A:83:ARG:HG2 | 0.62 | 1.95 | 8 | 12 |
| 1:A:29:LEU:HD22 | 1:A:57:LEU:HD11 | 0.61 | 1.72 | 3 | 20 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:51:ILE:HD13 | 1:A:69:ARG:HD3 | 0.60 | 1.72 | 13 | 1 |
| 1:A:143:MET:HE2 | 1:A:150:ILE:HG23 | 0.60 | 1.73 | 19 | 7 |
| 1:A:97:PHE:O | 1:A:101:LEU:HG | 0.59 | 1.97 | 13 | 2 |
| 1:A:70:ARG:HG2 | 1:A:73:ASP:OD1 | 0.59 | 1.97 | 9 | 1 |
| 1:A:60:PHE:CE1 | 1:A:145:LEU:HD13 | 0.59 | 2.32 | 17 | 2 |
| 1:A:142:HIS:O | 1:A:146:GLN:HB2 | 0.59 | 1.98 | 14 | 10 |
| 1:A:60:PHE:HA | 1:A:146:GLN:NE2 | 0.59 | 2.13 | 15 | 3 |
| 1:A:60:PHE:CZ | 1:A:145:LEU:HG | 0.58 | 2.33 | 15 | 2 |
| 1:A:132:HIS:O | 1:A:136:GLN:HG2 | 0.57 | 1.98 | 17 | 9 |
| 1:A:77:LEU:HD22 | 1:A:144:PHE:CD2 | 0.57 | 2.35 | 16 | 2 |
| 1:A:134:LEU:O | 1:A:138:GLU:HG2 | 0.57 | 1.99 | 4 | 5 |
| 1:A:129:VAL:O | 1:A:135:ALA:HB1 | 0.56 | 2.00 | 5 | 19 |
| 1:A:33:VAL:O | 1:A:119:LYS:HG2 | 0.56 | 2.00 | 14 | 13 |
| 1:A:113:ASN:O | 1:A:117:GLU:HG3 | 0.56 | 2.00 | 14 | 3 |
| 1:A:33:VAL:HG22 | 1:A:123:GLU:HB3 | 0.55 | 1.78 | 11 | 6 |
| 1:A:75:GLU:HA | 1:A:92:LEU:HD11 | 0.55 | 1.78 | 10 | 9 |
| 1:A:51:ILE:HD11 | 1:A:74:PHE:CZ | 0.55 | 2.37 | 13 | 10 |
| 1:A:69:ARG:HG3 | 1:A:73:ASP:OD2 | 0.55 | 2.01 | 1 | 1 |
| 1:A:113:ASN:O | 1:A:117:GLU:HG2 | 0.55 | 2.02 | 18 | 10 |
| 1:A:80:GLU:HA | 1:A:80:GLU:OE1 | 0.55 | 2.02 | 5 | 1 |
| 1:A:144:PHE:CD2 | 1:A:150:ILE:HD11 | 0.54 | 2.37 | 17 | 4 |
| 1:A:74:PHE:CD2 | 1:A:122:LEU:HG | 0.54 | 2.37 | 3 | 5 |
| 1:A:80:GLU:HB3 | 1:A:140:CYS:SG | 0.54 | 2.42 | 9 | 4 |
| 1:A:71:TYR:O | 1:A:75:GLU:HG3 | 0.54 | 2.02 | 16 | 11 |
| 1:A:50:GLU:HG2 | 1:A:66:THR:CG2 | 0.54 | 2.32 | 15 | 6 |
| 1:A:120:GLN:HA | 1:A:123:GLU:OE2 | 0.53 | 2.02 | 7 | 10 |
| 1:A:117:GLU:HA | 1:A:120:GLN:NE2 | 0.53 | 2.18 | 14 | 13 |
| 1:A:139:ARG:HG2 | 1:A:158:LYS:O | 0.53 | 2.04 | 3 | 1 |
| 1:A:69:ARG:NE | 1:A:69:ARG:HA | 0.53 | 2.19 | 19 | 3 |
| 1:A:31:ILE:HA | 1:A:52:ARG:O | 0.53 | 2.04 | 11 | 8 |
| 1:A:57:LEU:HD13 | 1:A:60:PHE:CE1 | 0.53 | 2.38 | 17 | 5 |
| 1:A:123:GLU:HA | 1:A:126:ILE:HG22 | 0.53 | 1.81 | 11 | 19 |
| 1:A:141:LEU:O | 1:A:145:LEU:HD22 | 0.53 | 2.04 | 2 | 9 |
| 1:A:137:ASN:O | 1:A:158:LYS:HA | 0.52 | 2.04 | 17 | 1 |
| 1:A:148:GLU:HG2 | 1:A:149:ILE:CD1 | 0.52 | 2.34 | 9 | 4 |
| 1:A:37:GLN:HB3 | 1:A:48:THR:OG1 | 0.52 | 2.05 | 17 | 8 |
| 1:A:101:LEU:HD22 | 1:A:101:LEU:C | 0.52 | 2.25 | 7 | 1 |
| 1:A:27:ASN:OD1 | 1:A:57:LEU:HD23 | 0.51 | 2.05 | 1 | 8 |
| 1:A:55:THR:O | 1:A:63:LYS:HE2 | 0.51 | 2.05 | 5 | 1 |
| 1:A:51:ILE:O | 1:A:66:THR:HA | 0.51 | 2.05 | 12 | 10 |
| 1:A:97:PHE:HA | 1:A:100:GLN:HB3 | 0.51 | 1.82 | 4 | 12 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:138:GLU:OE2 | 1:A:158:LYS:HE3 | 0.51 | 2.06 | 3 | 1 |
| 1:A:103:PHE:O | 1:A:108:GLY:HA2 | 0.51 | 2.06 | 15 | 2 |
| 1:A:46:PHE:CD2 | 1:A:70:ARG:HD3 | 0.50 | 2.41 | 6 | 2 |
| 1:A:50:GLU:HG2 | 1:A:66:THR:HG22 | 0.50 | 1.83 | 15 | 3 |
| 1:A:33:VAL:HG21 | 1:A:122:LEU:HB3 | 0.50 | 1.83 | 3 | 5 |
| 1:A:78:ARG:O | 1:A:82:GLU:HG3 | 0.50 | 2.07 | 16 | 6 |
| 1:A:60:PHE:CE2 | 1:A:145:LEU:HG | 0.50 | 2.42 | 2 | 5 |
| 1:A:62:LEU:HD11 | 1:A:146:GLN:HA | 0.50 | 1.84 | 5 | 1 |
| 1:A:49:TYR:O | 1:A:68:ARG:HA | 0.50 | 2.07 | 8 | 3 |
| 1:A:95:LYS:N | 1:A:98:LEU:HD23 | 0.50 | 2.22 | 16 | 2 |
| 1:A:22:TYR:CG | 1:A:56:ASN:HB2 | 0.49 | 2.42 | 9 | 1 |
| 1:A:52:ARG:HG3 | 1:A:66:THR:HG23 | 0.49 | 1.84 | 13 | 1 |
| 1:A:101:LEU:HB2 | 1:A:102:PRO:CD | 0.49 | 2.38 | 18 | 1 |
| 1:A:69:ARG:HH11 | 1:A:150:ILE:HD12 | 0.49 | 1.67 | 4 | 2 |
| 1:A:72:SER:HA | 1:A:75:GLU:OE1 | 0.49 | 2.07 | 1 | 4 |
| 1:A:101:LEU:HD12 | 1:A:101:LEU:C | 0.49 | 2.27 | 18 | 2 |
| 1:A:94:GLY:O | 1:A:98:LEU:HD23 | 0.49 | 2.06 | 14 | 1 |
| 1:A:143:MET:HE1 | 1:A:154:TYR:CD1 | 0.49 | 2.43 | 17 | 1 |
| 1:A:78:ARG:HG3 | 1:A:89:VAL:CG1 | 0.48 | 2.38 | 9 | 17 |
| 1:A:33:VAL:HG13 | 1:A:123:GLU:HA | 0.48 | 1.85 | 20 | 3 |
| 1:A:137:ASN:ND2 | 1:A:158:LYS:HE3 | 0.48 | 2.24 | 2 | 1 |
| 1:A:137:ASN:ND2 | 1:A:158:LYS:HE2 | 0.48 | 2.23 | 11 | 1 |
| 1:A:59:ILE:HD12 | 1:A:136:GLN:O | 0.48 | 2.08 | 9 | 4 |
| 1:A:81:LEU:CD1 | 1:A:129:VAL:HB | 0.48 | 2.39 | 13 | 2 |
| 1:A:118:ARG:O | 1:A:122:LEU:HB2 | 0.48 | 2.08 | 6 | 8 |
| 1:A:31:ILE:HG12 | 1:A:53:VAL:HB | 0.48 | 1.85 | 16 | 20 |
| 1:A:41:VAL:O | 1:A:45:ARG:HB2 | 0.48 | 2.09 | 3 | 13 |
| 1:A:50:GLU:HA | 1:A:67:VAL:O | 0.47 | 2.10 | 8 | 3 |
| 1:A:33:VAL:HA | 1:A:50:GLU:O | 0.47 | 2.09 | 7 | 6 |
| 1:A:120:GLN:O | 1:A:123:GLU:HG2 | 0.47 | 2.09 | 5 | 2 |
| 1:A:67:VAL:HB | 1:A:69:ARG:NH1 | 0.47 | 2.25 | 13 | 1 |
| 1:A:132:HIS:ND1 | 1:A:133:PRO:HD2 | 0.47 | 2.24 | 19 | 10 |
| 1:A:60:PHE:CE2 | 1:A:145:LEU:HD22 | 0.47 | 2.45 | 20 | 1 |
| 1:A:143:MET:HG3 | 1:A:150:ILE:HG13 | 0.47 | 1.86 | 4 | 4 |
| 1:A:56:ASN:HA | 1:A:63:LYS:CE | 0.47 | 2.39 | 5 | 1 |
| 1:A:85:SER:HB2 | 1:A:87:VAL:HG23 | 0.46 | 1.86 | 8 | 1 |
| 1:A:67:VAL:HB | 1:A:69:ARG:CZ | 0.46 | 2.40 | 13 | 1 |
| 1:A:22:TYR:CD1 | 1:A:22:TYR:N | 0.46 | 2.83 | 3 | 7 |
| 1:A:97:PHE:CD2 | 1:A:117:GLU:HB3 | 0.46 | 2.45 | 19 | 4 |
| 1:A:111:ASP:OD2 | 1:A:113:ASN:HB2 | 0.46 | 2.10 | 17 | 1 |
| 1:A:109:ILE:HG22 | 1:A:114:PHE:CE2 | 0.46 | 2.46 | 9 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:69:ARG:CZ | 1:A:149:ILE:HG23 | 0.46 | 2.40 | 12 | 1 |
| 1:A:69:ARG:NH1 | 1:A:150:ILE:HG13 | 0.46 | 2.25 | 17 | 1 |
| 1:A:52:ARG:HG3 | 1:A:66:THR:CG2 | 0.46 | 2.40 | 13 | 2 |
| 1:A:77:LEU:HG | 1:A:144:PHE:CD1 | 0.46 | 2.46 | 20 | 2 |
| 1:A:90:PRO:HG3 | 1:A:128:LYS:HD2 | 0.46 | 1.88 | 10 | 6 |
| 1:A:138:GLU:HA | 1:A:158:LYS:HA | 0.46 | 1.87 | 8 | 1 |
| 1:A:62:LEU:N | 1:A:62:LEU:HD13 | 0.46 | 2.26 | 7 | 2 |
| 1:A:125:PHE:O | 1:A:129:VAL:HG13 | 0.46 | 2.11 | 2 | 6 |
| 1:A:83:ARG:HD2 | 1:A:84:GLU:N | 0.46 | 2.26 | 4 | 1 |
| 1:A:72:SER:HA | 1:A:75:GLU:OE2 | 0.46 | 2.11 | 13 | 2 |
| 1:A:52:ARG:HG2 | 1:A:66:THR:OG1 | 0.45 | 2.11 | 6 | 1 |
| 1:A:141:LEU:HG | 1:A:145:LEU:HD11 | 0.45 | 1.88 | 13 | 1 |
| 1:A:40:GLY:HA3 | 1:A:45:ARG:HA | 0.45 | 1.88 | 3 | 8 |
| 1:A:70:ARG:HG2 | 1:A:71:TYR:N | 0.45 | 2.27 | 14 | 1 |
| 1:A:31:ILE:HB | 1:A:127:ASN:ND2 | 0.45 | 2.27 | 20 | 1 |
| 1:A:55:THR:HG22 | 1:A:63:LYS:O | 0.45 | 2.10 | 20 | 3 |
| 1:A:143:MET:CE | 1:A:150:ILE:HG23 | 0.45 | 2.42 | 19 | 1 |
| 1:A:93:PRO:HG3 | 1:A:122:LEU:N | 0.45 | 2.25 | 11 | 1 |
| 1:A:109:ILE:HA | 1:A:114:PHE:CE2 | 0.45 | 2.47 | 7 | 1 |
| 1:A:59:ILE:HD12 | 1:A:159:ILE:HG13 | 0.45 | 1.88 | 1 | 4 |
| 1:A:109:ILE:HA | 1:A:114:PHE:CD1 | 0.44 | 2.47 | 18 | 1 |
| 1:A:116:GLU:HA | 1:A:119:LYS:HB3 | 0.44 | 1.88 | 13 | 8 |
| 1:A:55:THR:OG1 | 1:A:57:LEU:HG | 0.44 | 2.13 | 5 | 1 |
| 1:A:143:MET:HE3 | 1:A:154:TYR:CG | 0.44 | 2.48 | 19 | 1 |
| 1:A:55:THR:HG21 | 1:A:60:PHE:CD2 | 0.44 | 2.48 | 15 | 5 |
| 1:A:124:GLN:O | 1:A:128:LYS:HE2 | 0.44 | 2.12 | 19 | 1 |
| 1:A:96:ALA:O | 1:A:99:ARG:HD2 | 0.44 | 2.13 | 12 | 3 |
| 1:A:137:ASN:ND2 | 1:A:158:LYS:HB3 | 0.43 | 2.28 | 15 | 2 |
| 1:A:135:ALA:O | 1:A:141:LEU:HD22 | 0.43 | 2.13 | 5 | 7 |
| 1:A:81:LEU:O | 1:A:85:SER:HB2 | 0.43 | 2.13 | 3 | 2 |
| 1:A:98:LEU:HD22 | 1:A:98:LEU:N | 0.43 | 2.28 | 7 | 4 |
| 1:A:137:ASN:HD22 | 1:A:158:LYS:HE3 | 0.43 | 1.74 | 14 | 1 |
| 1:A:76:TRP:CE2 | 1:A:152:LYS:HG3 | 0.43 | 2.48 | 16 | 1 |
| 1:A:70:ARG:HG3 | 1:A:72:SER:H | 0.43 | 1.73 | 18 | 1 |
| 1:A:27:ASN:HB2 | 1:A:57:LEU:CD2 | 0.43 | 2.44 | 19 | 4 |
| 1:A:22:TYR:CE1 | 1:A:63:LYS:HD2 | 0.43 | 2.49 | 10 | 1 |
| 1:A:62:LEU:H | 1:A:62:LEU:HD13 | 0.43 | 1.73 | 5 | 2 |
| 1:A:70:ARG:HG2 | 1:A:73:ASP:OD2 | 0.43 | 2.13 | 1 | 1 |
| 1:A:78:ARG:CZ | 1:A:91:PRO:HA | 0.43 | 2.44 | 19 | 1 |
| 1:A:101:LEU:CD1 | 1:A:101:LEU:H | 0.43 | 2.26 | 7 | 1 |
| 1:A:142:HIS:HA | 1:A:146:GLN:OE1 | 0.43 | 2.13 | 13 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:33:VAL:HG13 | 1:A:123:GLU:CA | 0.43 | 2.44 | 14 | 1 |
| 1:A:27:ASN:HD22 | 1:A:56:ASN:ND2 | 0.42 | 2.12 | 13 | 7 |
| 1:A:149:ILE:H | 1:A:149:ILE:HD12 | 0.42 | 1.72 | 15 | 3 |
| 1:A:73:ASP:HB3 | 1:A:150:ILE:HD12 | 0.42 | 1.90 | 15 | 2 |
| 1:A:139:ARG:HB2 | 1:A:157:SER:O | 0.42 | 2.15 | 15 | 1 |
| 1:A:119:LYS:O | 1:A:123:GLU:HG2 | 0.42 | 2.15 | 19 | 1 |
| 1:A:38:THR:HG22 | 1:A:45:ARG:NE | 0.42 | 2.29 | 16 | 1 |
| 1:A:69:ARG:HG3 | 1:A:73:ASP:CG | 0.42 | 2.33 | 1 | 1 |
| 1:A:60:PHE:O | 1:A:62:LEU:HD22 | 0.42 | 2.14 | 7 | 1 |
| 1:A:87:VAL:CG1 | 1:A:89:VAL:HG22 | 0.42 | 2.44 | 13 | 3 |
| 1:A:88:VAL:HG13 | 1:A:88:VAL:O | 0.42 | 2.15 | 6 | 2 |
| 1:A:76:TRP:NE1 | 1:A:152:LYS:HD3 | 0.42 | 2.30 | 1 | 1 |
| 1:A:123:GLU:HG3 | 1:A:124:GLN:NE2 | 0.42 | 2.29 | 15 | 2 |
| 1:A:154:TYR:O | 1:A:156:PRO:HD3 | 0.42 | 2.14 | 17 | 1 |
| 1:A:135:ALA:C | 1:A:141:LEU:HD22 | 0.42 | 2.35 | 8 | 1 |
| 1:A:138:GLU:C | 1:A:159:ILE:HG12 | 0.42 | 2.34 | 8 | 1 |
| 1:A:147:ASP:OD1 | 1:A:149:ILE:HD12 | 0.42 | 2.15 | 9 | 1 |
| 1:A:56:ASN:C | 1:A:56:ASN:HD22 | 0.42 | 2.16 | 10 | 1 |
| 1:A:96:ALA:HA | 1:A:99:ARG:CZ | 0.42 | 2.45 | 12 | 1 |
| 1:A:131:GLY:HA2 | 1:A:136:GLN:NE2 | 0.42 | 2.30 | 13 | 1 |
| 1:A:98:LEU:H | 1:A:98:LEU:CD2 | 0.41 | 2.24 | 13 | 2 |
| 1:A:62:LEU:HD13 | 1:A:62:LEU:N | 0.41 | 2.30 | 5 | 1 |
| 1:A:88:VAL:O | 1:A:88:VAL:HG13 | 0.41 | 2.15 | 9 | 1 |
| 1:A:74:PHE:CE2 | 1:A:122:LEU:HG | 0.41 | 2.50 | 11 | 1 |
| 1:A:67:VAL:CG2 | 1:A:69:ARG:HE | 0.41 | 2.28 | 4 | 1 |
| 1:A:150:ILE:CG2 | 1:A:152:LYS:HE3 | 0.41 | 2.45 | 14 | 1 |
| 1:A:62:LEU:HD12 | 1:A:65:SER:CB | 0.41 | 2.45 | 6 | 1 |
| 1:A:90:PRO:HD2 | 1:A:129:VAL:CG1 | 0.41 | 2.46 | 9 | 2 |
| 1:A:101:LEU:HB3 | 1:A:102:PRO:CD | 0.41 | 2.46 | 9 | 1 |
| 1:A:139:ARG:HD2 | 1:A:139:ARG:O | 0.41 | 2.15 | 13 | 1 |
| 1:A:45:ARG:HD3 | 1:A:110:PHE:CZ | 0.41 | 2.51 | 17 | 1 |
| 1:A:70:ARG:HG2 | 1:A:72:SER:H | 0.41 | 1.75 | 19 | 1 |
| 1:A:137:ASN:O | 1:A:158:LYS:CB | 0.41 | 2.69 | 19 | 1 |
| 1:A:76:TRP:O | 1:A:80:GLU:HB2 | 0.41 | 2.16 | 6 | 1 |
| 1:A:36:PRO:HB3 | 1:A:115:ILE:HG21 | 0.40 | 1.92 | 12 | 1 |
| 1:A:51:ILE:O | 1:A:66:THR:HG23 | 0.40 | 2.15 | 9 | 1 |
| 1:A:144:PHE:CD1 | 1:A:150:ILE:HD11 | 0.40 | 2.51 | 20 | 1 |
| 1:A:125:PHE:CE1 | 1:A:129:VAL:HG11 | 0.40 | 2.52 | 14 | 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 | 139/172 (81%) | 117±3 (84±2%) | 18±2 (13±2%) | 4±2 (3±1%) | 6 40 |
| All | All | 2780/3440 (81%) | 2347 (84%) | 355 (13%) | 78 (3%) | 6 40 |

All 10 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 88 | VAL | 20 |
| 1 | A | 34 | SER | 14 |
| 1 | A | 96 | ALA | 9 |
| 1 | A | 94 | GLY | 8 |
| 1 | A | 102 | PRO | 6 |
| 1 | A | 154 | TYR | 6 |
| 1 | A | 147 | ASP | 5 |
| 1 | A | 148 | GLU | 5 |
| 1 | A | 104 | ARG | 3 |
| 1 | A | 103 | PHE | 2 |

### 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 | 127/154 (82%) | 107±1 (85±1%) | 20±1 (15±1%) | 4 41 |
| All | All | 2540/3080 (82%) | 2148 (85%) | 392 (15%) | 4 41 |

All 46 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 | 53 | VAL | 20 |
| 1 | A | 56 | ASN | 20 |
| 1 | A | 62 | LEU | 20 |
| 1 | A | 97 | PHE | 20 |
| 1 | A | 116 | GLU | 20 |
| 1 | A | 119 | LYS | 20 |
| 1 | A | 134 | LEU | 20 |
| 1 | A | 149 | ILE | 20 |
| 1 | A | 59 | ILE | 18 |
| 1 | A | 154 | TYR | 18 |
| 1 | A | 99 | ARG | 17 |
| 1 | A | 160 | ARG | 15 |
| 1 | A | 89 | VAL | 13 |
| 1 | A | 114 | PHE | 13 |
| 1 | A | 33 | VAL | 12 |
| 1 | A | 64 | GLU | 11 |
| 1 | A | 145 | LEU | 11 |
| 1 | A | 61 | LYS | 10 |
| 1 | A | 100 | GLN | 10 |
| 1 | A | 137 | ASN | 10 |
| 1 | A | 139 | ARG | 8 |
| 1 | A | 122 | LEU | 7 |
| 1 | A | 136 | GLN | 7 |
| 1 | A | 128 | LYS | 6 |
| 1 | A | 69 | ARG | 5 |
| 1 | A | 28 | PHE | 4 |
| 1 | A | 76 | TRP | 3 |
| 1 | A | 85 | SER | 3 |
| 1 | A | 67 | VAL | 3 |
| 1 | A | 158 | LYS | 3 |
| 1 | A | 98 | LEU | 3 |
| 1 | A | 80 | GLU | 3 |
| 1 | A | 22 | TYR | 3 |
| 1 | A | 39 | VAL | 2 |
| 1 | A | 143 | MET | 2 |
| 1 | A | 118 | ARG | 2 |
| 1 | A | 70 | ARG | 1 |
| 1 | A | 140 | CYS | 1 |
| 1 | A | 101 | LEU | 1 |
| 1 | A | 129 | VAL | 1 |
| 1 | A | 111 | ASP | 1 |
| 1 | A | 151 | ASP | 1 |
| 1 | A | 45 | ARG | 1 |

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| Mol | Chain | Res | Type | Models (Total) |
|---|---|---|---|---|
| 1 | A | 107 | ASP | 1 |
| 1 | A | 144 | PHE | 1 |
| 1 | A | 127 | ASN | 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 oligosaccharides in this entry.

## 6.6 Ligand geometry

There are no ligands in this entry.

## 6.7 Other polymers

There are no such molecules in this entry.

## 6.8 Polymer linkage issues

There are no chain breaks in this entry.

# 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 88% for the well-defined parts and 84% for the entire structure.

## 7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list*

### 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 | 2071 |
| Number of shifts mapped to atoms | 2071 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 0 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 2 |

### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction ± precision, *ppm* | Suggested action |
|---|---|---|---|
| $^{13}C_{\alpha}$ | 164 | -0.16 ± 0.05 | None needed (< 0.5 ppm) |
| $^{13}C_{\beta}$ | 152 | 0.01 ± 0.07 | None needed (< 0.5 ppm) |
| $^{13}C'$ | 156 | -0.32 ± 0.08 | None needed (< 0.5 ppm) |
| $^{15}N$ | 150 | -0.14 ± 0.16 | None needed (< 0.5 ppm) |

### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 88%, i.e. 1773 atoms were assigned a chemical shift out of a possible 2006. 0 out of 21 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}H$ | $^{13}C$ | $^{15}N$ |
|---|---|---|---|---|
| Backbone | 675/684 (99%) | 275/277 (99%) | 273/278 (98%) | 127/129 (98%) |
| Sidechain | 987/1158 (85%) | 665/743 (90%) | 311/355 (88%) | 11/60 (18%) |

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| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Aromatic | 111/164 (68%) | 68/80 (85%) | 42/79 (53%) | 1/5 (20%) |
| Overall | 1773/2006 (88%) | 1008/1100 (92%) | 626/712 (88%) | 139/194 (72%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 84%, i.e. 2071 atoms were assigned a chemical shift out of a possible 2457. 0 out of 25 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^{1}$H | $^{13}$C | $^{15}$N |
|---|---|---|---|---|
| Backbone | 794/848 (94%) | 324/343 (94%) | 320/344 (93%) | 150/161 (93%) |
| Sidechain | 1164/1389 (84%) | 784/894 (88%) | 366/425 (86%) | 14/70 (20%) |
| Aromatic | 113/220 (51%) | 69/108 (64%) | 43/93 (46%) | 1/19 (5%) |
| Overall | 2071/2457 (84%) | 1177/1345 (88%) | 729/862 (85%) | 165/250 (66%) |

### 7.1.4 Statistically unusual chemical shifts (i)

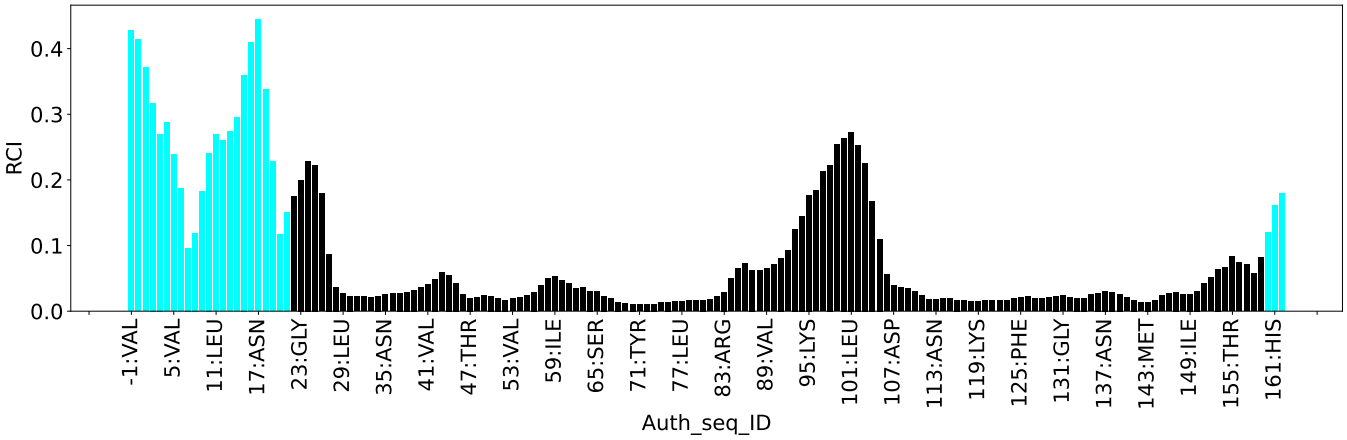
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

| List Id | Chain | Res | Type | Atom | Shift, *ppm* | Expected range, *ppm* | Z-score |
|---|---|---|---|---|---|---|---|
| 1 | A | 80 | GLU | HG2 | 1.10 | 1.24 – 3.30 | -5.7 |
| 1 | A | 123 | GLU | CB | 38.45 | 21.56 – 38.37 | 5.0 |

### 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:


RCI
0.0
0.1
0.2
0.3
0.4
-1:VAL
5:VAL
11:LEU
17:ASN
23:GLY
29:LEU
35:ASN
41:VAL
47:THR
53:VAL
59:ILE
65:SER
71:TYR
77:LEU
83:ARG
89:VAL
95:LYS
101:LEU
107:ASP
113:ASN
119:LYS
125:PHE
131:GLY
137:ASN
143:MET
149:ILE
155:THR
161:HIS
Auth_seq_ID

# 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 | 5029 |
| Intra-residue (\|i-j\|=0) | 1826 |
| Sequential (\|i-j\|=1) | 1297 |
| Medium range (\|i-j\|>1 and \|i-j\|<5) | 716 |
| Long range (\|i-j\|≥5) | 1146 |
| Inter-chain | 0 |
| Hydrogen bond restraints | 44 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 180 |
| Number of unmapped restraints | 0 |
| Number of restraints per residue | 30.3 |
| Number of long range restraints per residue[1] | 6.8 |

[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) | 172.2 | 0.2 |
| 0.2-0.5 (Medium) | 367.4 | 0.5 |
| >0.5 (Large) | 359.9 | 3.92 |

### 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) | 9.8 | 4.93 |
| 10.0-20.0 (Medium) | None | None |
| >20.0 (Large) | None | None |

# 9 Distance violation analysis (i)

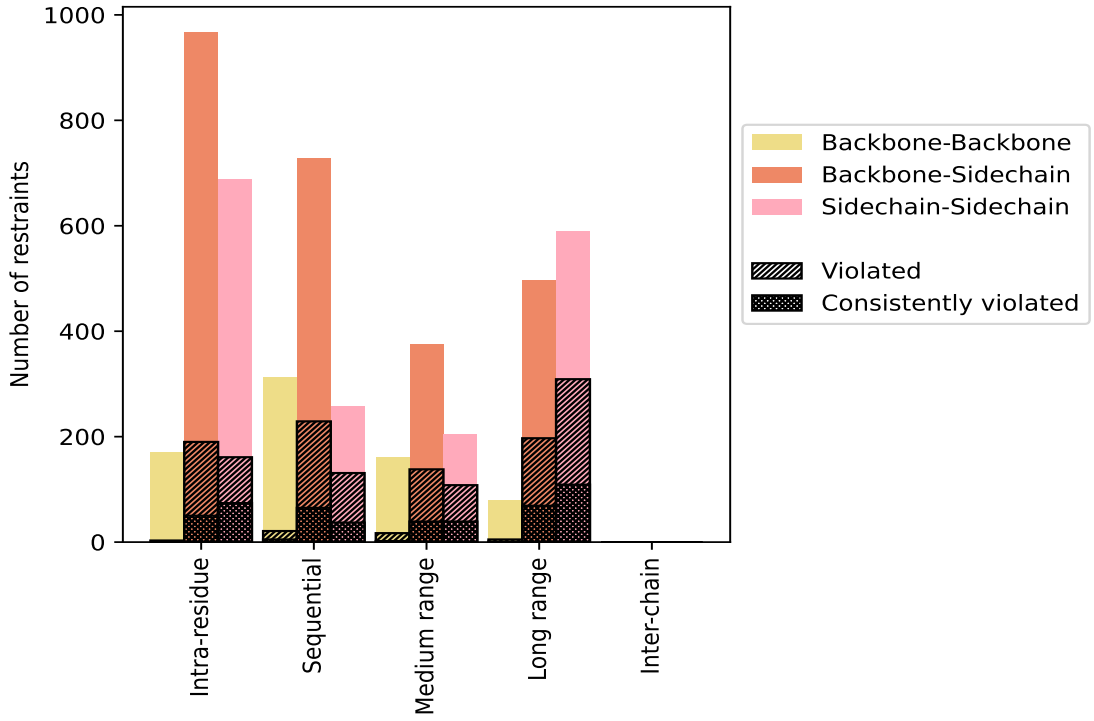
## 9.1 Summary of distance violations (i)

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) | 1826 | 36.3 | 354 | 19.4 | 7.0 | 124 | 6.8 | 2.5 |
| Backbone-Backbone | 171 | 3.4 | 3 | 1.8 | 0.1 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 967 | 19.2 | 190 | 19.6 | 3.8 | 50 | 5.2 | 1.0 |
| Sidechain-Sidechain | 688 | 13.7 | 161 | 23.4 | 3.2 | 74 | 10.8 | 1.5 |
| Sequential (\|i-j\|=1) | 1297 | 25.8 | 381 | 29.4 | 7.6 | 107 | 8.2 | 2.1 |
| Backbone-Backbone | 313 | 6.2 | 21 | 6.7 | 0.4 | 5 | 1.6 | 0.1 |
| Backbone-Sidechain | 727 | 14.5 | 229 | 31.5 | 4.6 | 65 | 8.9 | 1.3 |
| Sidechain-Sidechain | 257 | 5.1 | 131 | 51.0 | 2.6 | 37 | 14.4 | 0.7 |
| Medium range (\|i-j\|>1 & \|i-j\|<5) | 716 | 14.2 | 261 | 36.5 | 5.2 | 80 | 11.2 | 1.6 |
| Backbone-Backbone | 160 | 3.2 | 17 | 10.6 | 0.3 | 2 | 1.2 | 0.0 |
| Backbone-Sidechain | 351 | 7.0 | 136 | 38.7 | 2.7 | 39 | 11.1 | 0.8 |
| Sidechain-Sidechain | 205 | 4.1 | 108 | 52.7 | 2.1 | 39 | 19.0 | 0.8 |
| Long range (\|i-j\|≥5) | 1146 | 22.8 | 510 | 44.5 | 10.1 | 179 | 15.6 | 3.6 |
| Backbone-Backbone | 79 | 1.6 | 5 | 6.3 | 0.1 | 1 | 1.3 | 0.0 |
| Backbone-Sidechain | 477 | 9.5 | 196 | 41.1 | 3.9 | 69 | 14.5 | 1.4 |
| Sidechain-Sidechain | 590 | 11.7 | 309 | 52.4 | 6.1 | 109 | 18.5 | 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 | 44 | 0.9 | 3 | 6.8 | 0.1 | 0 | 0.0 | 0.0 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 5029 | 100.0 | 1509 | 30.0 | 30.0 | 490 | 9.7 | 9.7 |
| Backbone-Backbone | 723 | 14.4 | 46 | 6.4 | 0.9 | 8 | 1.1 | 0.2 |
| Backbone-Sidechain | 2566 | 51.0 | 754 | 29.4 | 15.0 | 223 | 8.7 | 4.4 |
| Sidechain-Sidechain | 1740 | 34.6 | 709 | 40.7 | 14.1 | 259 | 14.9 | 5.2 |

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

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




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 | 217 | 212 | 164 | 309 | 0 | 902 | 0.5 | 2.53 | 0.37 | 0.39 |
| 2 | 209 | 210 | 155 | 324 | 0 | 898 | 0.51 | 2.41 | 0.37 | 0.39 |
| 3 | 213 | 229 | 150 | 326 | 0 | 918 | 0.52 | 2.51 | 0.38 | 0.41 |
| 4 | 214 | 216 | 159 | 310 | 0 | 899 | 0.51 | 2.29 | 0.38 | 0.41 |
| 5 | 207 | 217 | 166 | 329 | 0 | 919 | 0.52 | 2.64 | 0.39 | 0.4 |
| 6 | 215 | 226 | 163 | 304 | 0 | 908 | 0.53 | 3.92 | 0.42 | 0.4 |
| 7 | 211 | 227 | 152 | 323 | 0 | 913 | 0.54 | 3.35 | 0.42 | 0.42 |
| 8 | 212 | 220 | 148 | 318 | 0 | 898 | 0.52 | 2.53 | 0.39 | 0.4 |
| 9 | 223 | 213 | 165 | 325 | 0 | 926 | 0.51 | 2.71 | 0.38 | 0.4 |
| 10 | 211 | 222 | 159 | 315 | 0 | 907 | 0.52 | 2.23 | 0.39 | 0.39 |

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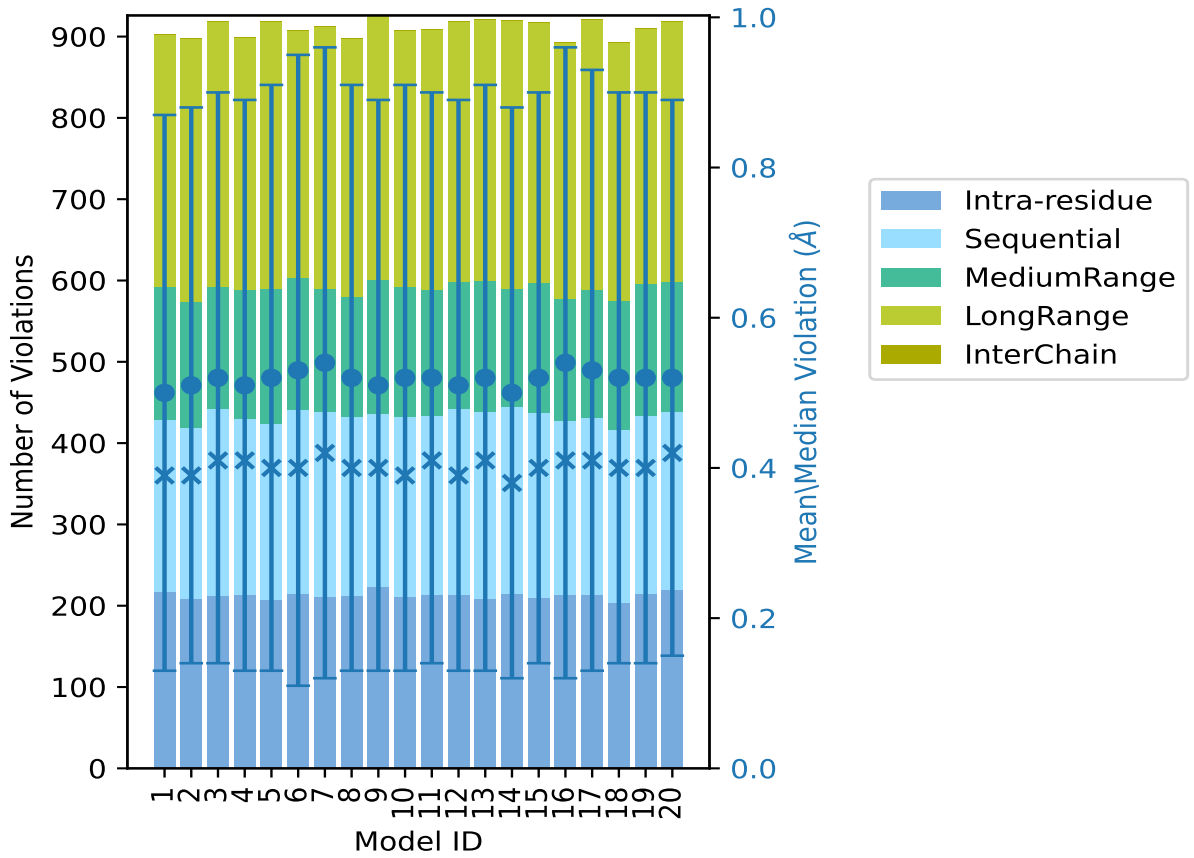
| Model ID | Number of violations | | | | | | Mean (Å) | Max (Å) | SD[6] (Å) | Median (Å) |
|---|---|---|---|---|---|---|---|---|---|---|
| | IR[1] | SQ[2] | MR[3] | LR[4] | IC[5] | Total | | | | |
| 11 | 213 | 221 | 154 | 321 | 0 | 909 | 0.52 | 2.52 | 0.38 | 0.41 |
| 12 | 214 | 228 | 157 | 320 | 0 | 919 | 0.51 | 2.39 | 0.38 | 0.39 |
| 13 | 209 | 229 | 161 | 322 | 0 | 921 | 0.52 | 2.68 | 0.39 | 0.41 |
| 14 | 215 | 229 | 146 | 330 | 0 | 920 | 0.5 | 2.62 | 0.38 | 0.38 |
| 15 | 210 | 227 | 160 | 320 | 0 | 917 | 0.52 | 2.5 | 0.38 | 0.4 |
| 16 | 214 | 213 | 150 | 316 | 0 | 893 | 0.54 | 3.24 | 0.42 | 0.41 |
| 17 | 214 | 217 | 157 | 333 | 0 | 921 | 0.53 | 2.5 | 0.4 | 0.41 |
| 18 | 204 | 213 | 158 | 318 | 0 | 893 | 0.52 | 2.42 | 0.38 | 0.4 |
| 19 | 214 | 220 | 162 | 314 | 0 | 910 | 0.52 | 2.24 | 0.38 | 0.4 |
| 20 | 220 | 219 | 160 | 319 | 0 | 918 | 0.52 | 2.14 | 0.37 | 0.42 |

[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

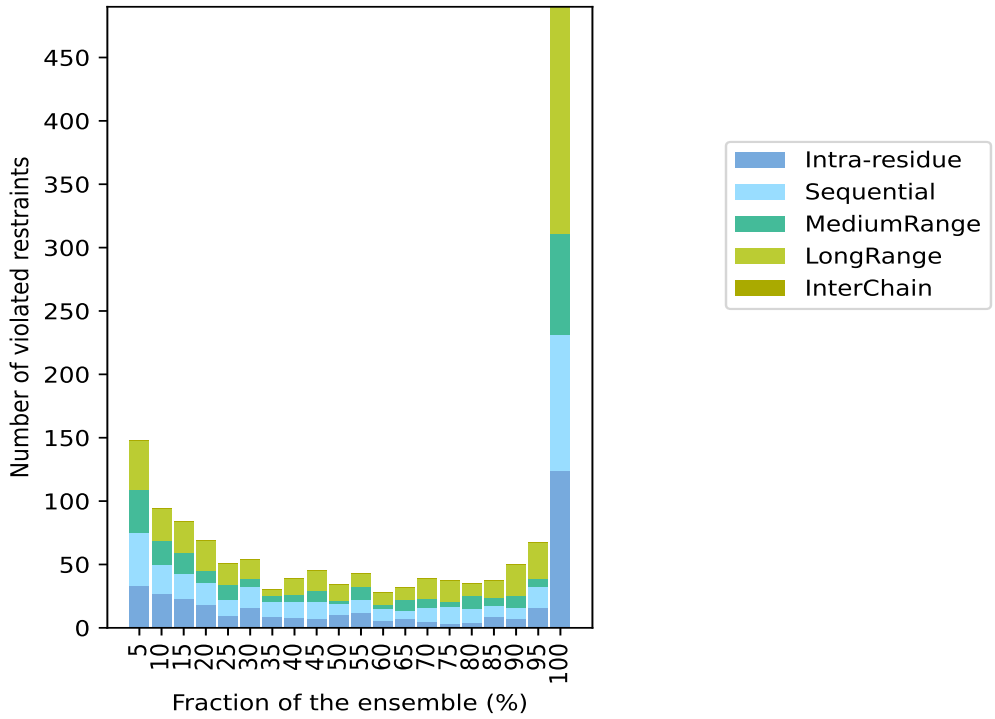
## 9.3 Distance violation statistics for the ensemble (i)

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, 3479(IR:1472, SQ:916, MR:455, LR:636, 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] | % |
| 33 | 42 | 34 | 39 | 0 | 148 | 1 | 5.0 |
| 27 | 23 | 19 | 25 | 0 | 94 | 2 | 10.0 |
| 23 | 20 | 16 | 25 | 0 | 84 | 3 | 15.0 |
| 18 | 18 | 9 | 24 | 0 | 69 | 4 | 20.0 |
| 10 | 12 | 12 | 17 | 0 | 51 | 5 | 25.0 |
| 16 | 16 | 7 | 15 | 0 | 54 | 6 | 30.0 |
| 9 | 12 | 4 | 5 | 0 | 30 | 7 | 35.0 |
| 8 | 13 | 5 | 13 | 0 | 39 | 8 | 40.0 |
| 7 | 14 | 8 | 16 | 0 | 45 | 9 | 45.0 |
| 10 | 9 | 2 | 13 | 0 | 34 | 10 | 50.0 |
| 12 | 10 | 10 | 11 | 0 | 43 | 11 | 55.0 |
| 6 | 9 | 3 | 10 | 0 | 28 | 12 | 60.0 |
| 7 | 7 | 8 | 10 | 0 | 32 | 13 | 65.0 |
| 5 | 11 | 7 | 16 | 0 | 39 | 14 | 70.0 |
| 3 | 14 | 4 | 16 | 0 | 37 | 15 | 75.0 |
| 4 | 11 | 10 | 10 | 0 | 35 | 16 | 80.0 |
| 9 | 8 | 7 | 13 | 0 | 37 | 17 | 85.0 |
| 7 | 9 | 9 | 25 | 0 | 50 | 18 | 90.0 |
| 16 | 16 | 7 | 28 | 0 | 67 | 19 | 95.0 |
| 124 | 107 | 80 | 179 | 0 | 490 | 20 | 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

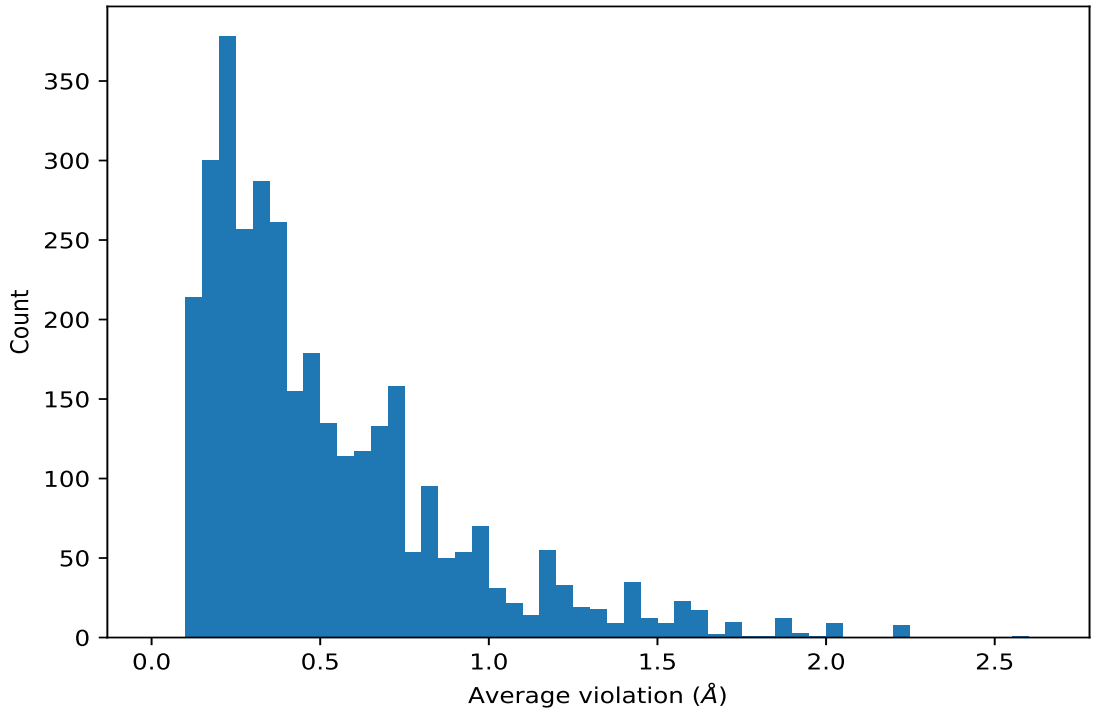
### 9.3.1 Bar graph : Distance violation statistics for the ensemble




## 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 theviolation 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) |
|---|---|---|---|---|---|---|
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD12 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD23 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD13 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD11 | 1:148:A:GLU:HB2 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD21 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD11 | 1:141:A:LEU:HB3 | 20 | 2.22 | 0.25 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD12 | 1:148:A:GLU:HB2 | 20 | 2.22 | 0.25 | 2.26 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD22 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD21 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD21 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD21 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD22 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD22 | 20 | 2.0 | 0.08 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD23 | 20 | 2.0 | 0.08 | 2.0 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD23 | 20 | 2.0 | 0.08 | 2.0 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 20 | 1.97 | 0.03 | 1.96 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 20 | 1.88 | 0.1 | 1.91 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 20 | 1.88 | 0.1 | 1.91 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 20 | 1.88 | 0.1 | 1.91 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD12 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD13 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD21 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:160:A:ARG:HD3 | 1:57:A:LEU:HD22 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD12 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD22 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD11 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD13 | 20 | 1.85 | 0.33 | 1.82 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD23 | 20 | 1.85 | 0.33 | 1.82 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 20 | 1.8 | 0.33 | 1.76 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD11 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD13 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:141:A:LEU:HD13 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:59:A:ILE:HD13 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:59:A:ILE:HD11 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:141:A:LEU:HD11 | 20 | 1.74 | 0.2 | 1.69 |
| (2,4146) | 1:64:A:GLU:HG3 | 1:54:A:LYS:HG2 | 20 | 1.74 | 0.11 | 1.72 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 20 | 1.74 | 0.11 | 1.72 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 20 | 1.7 | 0.67 | 1.27 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 20 | 1.64 | 0.38 | 1.7 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 20 | 1.64 | 0.38 | 1.7 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE3 | 20 | 1.64 | 0.38 | 1.7 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 20 | 1.63 | 0.17 | 1.58 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 20 | 1.63 | 0.17 | 1.58 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG22 | 20 | 1.63 | 0.17 | 1.58 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 20 | 1.62 | 0.07 | 1.63 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 20 | 1.62 | 0.07 | 1.63 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 20 | 1.62 | 0.07 | 1.63 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 20 | 1.62 | 0.53 | 1.93 |
| (2,1295) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HB2 | 20 | 1.62 | 0.53 | 1.93 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 20 | 1.62 | 0.53 | 1.93 |
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 20 | 1.6 | 0.03 | 1.61 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 20 | 1.6 | 0.03 | 1.61 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 20 | 1.6 | 0.03 | 1.61 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG22 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 20 | 1.56 | 0.2 | 1.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG21 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG21 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG23 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG22 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG22 | 20 | 1.56 | 0.2 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG21 | 20 | 1.56 | 0.2 | 1.62 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HD13 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG23 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG23 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG21 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG22 | 20 | 1.56 | 0.27 | 1.63 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 20 | 1.55 | 0.11 | 1.57 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HB | 20 | 1.55 | 0.11 | 1.57 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HB2 | 20 | 1.55 | 0.11 | 1.57 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HB | 20 | 1.55 | 0.11 | 1.57 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HB2 | 20 | 1.55 | 0.11 | 1.57 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 20 | 1.53 | 0.3 | 1.44 |
| (2,4086) | 1:51:A:ILE:HD12 | 1:73:A:ASP:HB3 | 20 | 1.53 | 0.3 | 1.44 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 20 | 1.53 | 0.3 | 1.44 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HB3 | 20 | 1.53 | 0.3 | 1.44 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 20 | 1.51 | 0.27 | 1.52 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 20 | 1.51 | 0.27 | 1.52 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 20 | 1.51 | 0.27 | 1.52 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HZ | 20 | 1.51 | 0.27 | 1.52 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HZ | 20 | 1.51 | 0.27 | 1.52 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 20 | 1.48 | 0.08 | 1.46 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 20 | 1.48 | 0.08 | 1.46 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 20 | 1.48 | 0.08 | 1.46 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 20 | 1.47 | 0.09 | 1.48 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 20 | 1.47 | 0.09 | 1.48 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 20 | 1.47 | 0.09 | 1.48 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 20 | 1.47 | 0.23 | 1.52 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD2 | 20 | 1.47 | 0.23 | 1.52 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 20 | 1.46 | 0.12 | 1.5 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 20 | 1.46 | 0.12 | 1.5 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD13 | 20 | 1.46 | 0.12 | 1.5 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 20 | 1.44 | 0.02 | 1.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 20 | 1.43 | 0.51 | 1.63 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 20 | 1.43 | 0.51 | 1.63 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE3 | 20 | 1.43 | 0.51 | 1.63 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD1 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD1 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:49:A:TYR:HD2 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:49:A:TYR:HD2 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD2 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD1 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD2 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD2 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:49:A:TYR:HD1 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:49:A:TYR:HD1 | 20 | 1.42 | 0.25 | 1.44 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 20 | 1.42 | 0.11 | 1.45 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 20 | 1.42 | 0.11 | 1.45 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 20 | 1.42 | 0.08 | 1.39 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 20 | 1.41 | 0.14 | 1.42 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 20 | 1.41 | 0.14 | 1.42 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 20 | 1.41 | 0.14 | 1.42 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 20 | 1.4 | 0.15 | 1.44 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 20 | 1.4 | 0.15 | 1.44 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:138:A:GLU:H | 20 | 1.4 | 0.15 | 1.44 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:128:A:LYS:H | 20 | 1.4 | 0.15 | 1.44 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:128:A:LYS:H | 20 | 1.4 | 0.15 | 1.44 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 20 | 1.38 | 0.04 | 1.39 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 20 | 1.36 | 0.11 | 1.35 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 20 | 1.36 | 0.14 | 1.35 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG23 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG23 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG21 | 20 | 1.32 | 0.28 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG22 | 20 | 1.32 | 0.28 | 1.38 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 20 | 1.32 | 0.15 | 1.32 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 20 | 1.32 | 0.15 | 1.32 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 20 | 1.32 | 0.15 | 1.32 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 20 | 1.29 | 0.01 | 1.29 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 20 | 1.27 | 0.11 | 1.27 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 20 | 1.27 | 0.11 | 1.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 20 | 1.27 | 0.11 | 1.27 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD13 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HG23 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD11 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE1 | 1:149:A:ILE:HG22 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HD11 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HG21 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HG22 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD12 | 20 | 1.27 | 0.29 | 1.25 |
| (2,3786) | 1:143:A:MET:HE3 | 1:141:A:LEU:HD11 | 20 | 1.27 | 0.29 | 1.25 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 20 | 1.24 | 0.02 | 1.24 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 20 | 1.23 | 0.14 | 1.21 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 20 | 1.22 | 0.04 | 1.22 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA2 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA3 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA2 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA3 | 20 | 1.21 | 0.13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:115:A:ILE:HA | 20 | 1.21 | 0.13 | 1.25 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD12 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD13 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD21 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD11 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD11 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD13 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD12 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD13 | 20 | 1.21 | 0.17 | 1.22 |
| (2,4334) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD21 | 20 | 1.21 | 0.17 | 1.22 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 20 | 1.2 | 0.14 | 1.23 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG23 | 20 | 1.2 | 0.14 | 1.23 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 20 | 1.2 | 0.14 | 1.23 |
| (2,3922) | 1:119:A:LYS:HE2 | 1:33:A:VAL:HG22 | 20 | 1.2 | 0.14 | 1.23 |
| (2,3922) | 1:119:A:LYS:HE2 | 1:33:A:VAL:HG23 | 20 | 1.2 | 0.14 | 1.23 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD12 | 20 | 1.2 | 0.26 | 1.33 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 20 | 1.2 | 0.26 | 1.33 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD13 | 20 | 1.2 | 0.26 | 1.33 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD13 | 20 | 1.2 | 0.26 | 1.33 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD12 | 20 | 1.2 | 0.26 | 1.33 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD11 | 20 | 1.2 | 0.26 | 1.33 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 20 | 1.2 | 0.04 | 1.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 20 | 1.19 | 0.16 | 1.2 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE2 | 20 | 1.19 | 0.16 | 1.2 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 20 | 1.19 | 0.09 | 1.21 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 20 | 1.19 | 0.09 | 1.21 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 20 | 1.19 | 0.09 | 1.21 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 20 | 1.19 | 0.12 | 1.21 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 20 | 1.19 | 0.12 | 1.21 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG22 | 20 | 1.19 | 0.12 | 1.21 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 20 | 1.18 | 0.08 | 1.18 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 20 | 1.18 | 0.08 | 1.18 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 20 | 1.18 | 0.08 | 1.18 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 20 | 1.17 | 0.13 | 1.14 |
| (2,4238) | 1:31:A:ILE:HG23 | 1:123:A:GLU:HB3 | 20 | 1.16 | 0.16 | 1.19 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 20 | 1.16 | 0.16 | 1.19 |
| (2,4238) | 1:31:A:ILE:HG21 | 1:123:A:GLU:HB3 | 20 | 1.16 | 0.16 | 1.19 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG22 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:81:A:LEU:HD21 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG23 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:81:A:LEU:HD22 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG21 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:81:A:LEU:HD21 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG23 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:81:A:LEU:HD22 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG21 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG22 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG23 | 20 | 1.16 | 0.15 | 1.2 |
| (2,4453) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB3 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG23 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4453) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB3 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG22 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG21 | 20 | 1.16 | 0.13 | 1.14 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 20 | 1.15 | 0.09 | 1.17 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 20 | 1.15 | 0.09 | 1.17 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 20 | 1.15 | 0.09 | 1.17 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG22 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG23 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG23 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG21 | 20 | 1.15 | 0.16 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG22 | 20 | 1.15 | 0.16 | 1.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 20 | 1.14 | 0.03 | 1.15 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 20 | 1.14 | 0.05 | 1.12 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 20 | 1.13 | 0.19 | 1.24 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG13 | 20 | 1.13 | 0.19 | 1.24 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 20 | 1.13 | 0.19 | 1.24 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 20 | 1.1 | 0.09 | 1.12 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 20 | 1.1 | 0.09 | 1.12 |
| (2,3761) | 1:53:A:VAL:HG23 | 1:28:A:PHE:HZ | 20 | 1.1 | 0.09 | 1.12 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 20 | 1.09 | 0.07 | 1.1 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 20 | 1.09 | 0.07 | 1.1 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 20 | 1.09 | 0.07 | 1.1 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 20 | 1.09 | 0.14 | 1.12 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 20 | 1.09 | 0.14 | 1.12 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 20 | 1.09 | 0.14 | 1.12 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 20 | 1.07 | 0.07 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 20 | 1.07 | 0.07 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:54:A:LYS:HB3 | 20 | 1.07 | 0.07 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 20 | 1.07 | 0.07 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 20 | 1.07 | 0.07 | 1.1 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 20 | 1.07 | 0.38 | 1.17 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 20 | 1.06 | 0.54 | 1.35 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 20 | 1.05 | 0.01 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 20 | 1.05 | 0.01 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 20 | 1.05 | 0.01 | 1.05 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD12 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD12 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD13 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD11 | 20 | 1.04 | 0.33 | 1.06 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 20 | 1.02 | 0.19 | 0.97 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 20 | 1.02 | 0.19 | 0.97 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG21 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG22 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG21 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG23 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG21 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG23 | 20 | 1.02 | 0.13 | 0.99 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG22 | 20 | 1.02 | 0.13 | 0.99 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 20 | 1.0 | 0.04 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG22 | 20 | 1.0 | 0.04 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 20 | 1.0 | 0.04 | 1.01 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 20 | 0.99 | 0.1 | 0.96 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 20 | 0.99 | 0.1 | 0.96 |
| (2,3796) | 1:130:A:ALA:HB3 | 1:128:A:LYS:H | 20 | 0.99 | 0.1 | 0.96 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 20 | 0.99 | 0.19 | 0.9 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:114:A:PHE:H | 20 | 0.99 | 0.19 | 0.9 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 20 | 0.98 | 0.09 | 1.0 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 20 | 0.98 | 0.09 | 1.0 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 20 | 0.98 | 0.09 | 1.0 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD22 | 20 | 0.98 | 0.09 | 1.0 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD12 | 20 | 0.98 | 0.09 | 1.0 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 20 | 0.98 | 0.08 | 0.96 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 20 | 0.98 | 0.24 | 1.01 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 20 | 0.98 | 0.24 | 1.01 |
| (2,3706) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 20 | 0.98 | 0.24 | 1.01 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 20 | 0.98 | 0.08 | 1.01 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 20 | 0.98 | 0.08 | 1.01 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD12 | 20 | 0.98 | 0.08 | 1.01 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 20 | 0.97 | 0.13 | 0.9 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 20 | 0.97 | 0.31 | 0.93 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 20 | 0.97 | 0.31 | 0.93 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 20 | 0.97 | 0.31 | 0.93 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD22 | 20 | 0.97 | 0.31 | 0.93 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD11 | 20 | 0.97 | 0.31 | 0.93 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD12 | 20 | 0.97 | 0.31 | 0.93 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG21 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG22 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG22 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG22 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG21 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG23 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG23 | 20 | 0.97 | 0.06 | 0.98 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG21 | 20 | 0.97 | 0.06 | 0.98 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 20 | 0.96 | 0.07 | 0.96 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 20 | 0.95 | 0.19 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:74:A:PHE:HA | 20 | 0.95 | 0.19 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:74:A:PHE:HA | 20 | 0.95 | 0.19 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:79:A:SER:HB3 | 20 | 0.95 | 0.19 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:79:A:SER:HB3 | 20 | 0.95 | 0.19 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:74:A:PHE:HA | 20 | 0.95 | 0.19 | 0.98 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG21 | 1:39:A:VAL:HG23 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG22 | 20 | 0.95 | 0.1 | 0.96 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG23 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG21 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG23 | 20 | 0.95 | 0.1 | 0.96 |
| (2,1410) | 1:48:A:THR:HG21 | 1:39:A:VAL:HG22 | 20 | 0.95 | 0.1 | 0.96 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 20 | 0.95 | 0.06 | 0.96 |
| (2,3724) | 1:89:A:VAL:HG12 | 1:128:A:LYS:H | 20 | 0.95 | 0.06 | 0.96 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 20 | 0.95 | 0.06 | 0.96 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 20 | 0.95 | 0.04 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD12 | 1:28:A:PHE:HD1 | 20 | 0.95 | 0.04 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 20 | 0.95 | 0.04 | 0.94 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 20 | 0.95 | 0.13 | 0.97 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 20 | 0.95 | 0.13 | 0.97 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 20 | 0.95 | 0.13 | 0.97 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 20 | 0.94 | 0.09 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 20 | 0.94 | 0.09 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:74:A:PHE:H | 20 | 0.94 | 0.09 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 20 | 0.94 | 0.09 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:74:A:PHE:H | 20 | 0.94 | 0.09 | 0.92 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 20 | 0.94 | 0.02 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 20 | 0.94 | 0.02 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 20 | 0.94 | 0.02 | 0.94 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 20 | 0.94 | 0.15 | 0.89 |
| (2,1136) | 1:59:A:ILE:HD11 | 1:136:A:GLN:HB2 | 20 | 0.94 | 0.15 | 0.89 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 20 | 0.94 | 0.15 | 0.89 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 20 | 0.93 | 0.12 | 0.94 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 20 | 0.93 | 0.12 | 0.94 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 20 | 0.93 | 0.12 | 0.94 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 20 | 0.93 | 0.17 | 0.94 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 0.93 | 0.17 | 0.94 |
| (2,3803) | 1:129:A:VAL:HG22 | 1:125:A:PHE:HD2 | 20 | 0.93 | 0.17 | 0.94 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 20 | 0.92 | 0.08 | 0.92 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 20 | 0.92 | 0.08 | 0.92 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG23 | 20 | 0.92 | 0.08 | 0.92 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 20 | 0.92 | 0.05 | 0.93 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 20 | 0.92 | 0.05 | 0.93 |
| (2,470) | 1:53:A:VAL:HG21 | 1:62:A:LEU:H | 20 | 0.92 | 0.05 | 0.93 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 20 | 0.92 | 0.14 | 0.94 |
| (2,4710) | 1:60:A:PHE:H | 1:58:A:PRO:HB3 | 20 | 0.92 | 0.14 | 0.94 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD3 | 20 | 0.92 | 0.2 | 0.9 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 20 | 0.92 | 0.2 | 0.9 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD3 | 20 | 0.92 | 0.2 | 0.9 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD2 | 20 | 0.92 | 0.2 | 0.9 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD3 | 20 | 0.92 | 0.2 | 0.9 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD2 | 20 | 0.92 | 0.2 | 0.9 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD21 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD21 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD23 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD22 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD22 | 20 | 0.91 | 0.29 | 0.92 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 20 | 0.91 | 0.13 | 0.93 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 20 | 0.91 | 0.13 | 0.93 |
| (2,3758) | 1:47:A:THR:HG22 | 1:36:A:PRO:HG2 | 20 | 0.91 | 0.13 | 0.93 |
| (2,3758) | 1:47:A:THR:HG22 | 1:37:A:GLN:HG3 | 20 | 0.91 | 0.13 | 0.93 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 20 | 0.91 | 0.03 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 20 | 0.91 | 0.03 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 20 | 0.91 | 0.03 | 0.92 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 20 | 0.9 | 0.08 | 0.9 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 20 | 0.9 | 0.08 | 0.9 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 20 | 0.9 | 0.08 | 0.9 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 20 | 0.9 | 0.18 | 0.93 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 20 | 0.89 | 0.18 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:27:A:ASN:HB3 | 20 | 0.89 | 0.18 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD22 | 1:27:A:ASN:HB3 | 20 | 0.89 | 0.18 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 20 | 0.89 | 0.18 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HG2 | 20 | 0.89 | 0.18 | 0.88 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 20 | 0.89 | 0.11 | 0.92 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 20 | 0.89 | 0.05 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 20 | 0.89 | 0.05 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HB3 | 20 | 0.89 | 0.05 | 0.88 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 20 | 0.88 | 0.08 | 0.9 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 20 | 0.88 | 0.08 | 0.9 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 20 | 0.88 | 0.08 | 0.9 |
| (2,3776) | 1:39:A:VAL:HG13 | 1:46:A:PHE:HZ | 20 | 0.88 | 0.21 | 0.92 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 20 | 0.88 | 0.21 | 0.92 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 20 | 0.88 | 0.21 | 0.92 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD2 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD1 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD1 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD1 | 20 | 0.88 | 0.08 | 0.88 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 20 | 0.87 | 0.71 | 0.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 20 | 0.87 | 0.71 | 0.74 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 20 | 0.87 | 0.71 | 0.74 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 20 | 0.87 | 0.12 | 0.9 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 20 | 0.87 | 0.12 | 0.9 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 20 | 0.87 | 0.12 | 0.9 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 20 | 0.87 | 0.32 | 0.8 |
| (2,3640) | 1:79:A:SER:HB3 | 1:82:A:GLU:HB2 | 20 | 0.87 | 0.32 | 0.8 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 20 | 0.86 | 0.07 | 0.88 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE2 | 20 | 0.86 | 0.07 | 0.88 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:109:A:ILE:H | 20 | 0.86 | 0.14 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 20 | 0.86 | 0.14 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HE2 | 20 | 0.86 | 0.14 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 20 | 0.86 | 0.14 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HE1 | 20 | 0.86 | 0.14 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:110:A:PHE:HE2 | 20 | 0.86 | 0.14 | 0.83 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 20 | 0.85 | 0.04 | 0.85 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HB3 | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:145:A:LEU:HG | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:145:A:LEU:HG | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:53:A:VAL:HB | 20 | 0.85 | 0.22 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:53:A:VAL:HB | 20 | 0.85 | 0.22 | 0.9 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 20 | 0.84 | 0.14 | 0.86 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 20 | 0.84 | 0.14 | 0.86 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 20 | 0.84 | 0.02 | 0.84 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 20 | 0.84 | 0.27 | 0.84 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 20 | 0.84 | 0.17 | 0.9 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 20 | 0.83 | 0.1 | 0.83 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 20 | 0.83 | 0.1 | 0.83 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 20 | 0.83 | 0.1 | 0.83 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 20 | 0.83 | 0.04 | 0.83 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 20 | 0.83 | 0.04 | 0.83 |
| (2,1215) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 20 | 0.83 | 0.04 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 20 | 0.83 | 0.04 | 0.84 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 20 | 0.83 | 0.04 | 0.82 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 20 | 0.83 | 0.04 | 0.82 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 20 | 0.83 | 0.04 | 0.82 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 20 | 0.83 | 0.04 | 0.82 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 20 | 0.83 | 0.1 | 0.8 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 20 | 0.83 | 0.1 | 0.8 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 20 | 0.83 | 0.1 | 0.8 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4558) | 1:33:A:VAL:HG12 | 1:124:A:GLN:H | 20 | 0.83 | 0.1 | 0.8 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 20 | 0.82 | 0.07 | 0.8 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 20 | 0.82 | 0.07 | 0.8 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG13 | 20 | 0.82 | 0.07 | 0.8 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 20 | 0.82 | 0.08 | 0.82 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 20 | 0.82 | 0.08 | 0.82 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 20 | 0.82 | 0.08 | 0.82 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 20 | 0.82 | 0.03 | 0.82 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 20 | 0.81 | 0.11 | 0.82 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD12 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD13 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD13 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD11 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HD13 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD11 | 20 | 0.81 | 0.14 | 0.84 |
| (2,510) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HD12 | 20 | 0.81 | 0.14 | 0.84 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 20 | 0.81 | 0.04 | 0.81 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 20 | 0.81 | 0.04 | 0.81 |
| (2,4796) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 20 | 0.81 | 0.04 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 20 | 0.81 | 0.03 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG23 | 1:37:A:GLN:HB2 | 20 | 0.81 | 0.03 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 20 | 0.81 | 0.03 | 0.81 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG13 | 20 | 0.81 | 0.2 | 0.75 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 20 | 0.81 | 0.2 | 0.75 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG11 | 20 | 0.81 | 0.2 | 0.75 |
| (2,4033) | 1:59:A:ILE:HD13 | 1:138:A:GLU:H | 20 | 0.8 | 0.05 | 0.79 |
| (2,4033) | 1:59:A:ILE:HD11 | 1:138:A:GLU:H | 20 | 0.8 | 0.05 | 0.79 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 20 | 0.8 | 0.05 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 20 | 0.8 | 0.12 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG11 | 1:82:A:GLU:H | 20 | 0.8 | 0.12 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 20 | 0.8 | 0.12 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:81:A:LEU:H | 20 | 0.8 | 0.12 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 20 | 0.79 | 0.03 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 20 | 0.79 | 0.03 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 20 | 0.79 | 0.03 | 0.79 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 20 | 0.77 | 0.41 | 0.74 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 20 | 0.77 | 0.41 | 0.74 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 20 | 0.77 | 0.11 | 0.78 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 20 | 0.77 | 0.11 | 0.78 |
| (2,4744) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 20 | 0.77 | 0.11 | 0.78 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 20 | 0.77 | 0.24 | 0.76 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3913) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 20 | 0.77 | 0.24 | 0.76 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 20 | 0.76 | 0.19 | 0.8 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:136:A:GLN:HA | 20 | 0.76 | 0.19 | 0.8 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 20 | 0.74 | 0.27 | 0.66 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 20 | 0.74 | 0.27 | 0.66 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 20 | 0.74 | 0.27 | 0.66 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,346) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 20 | 0.74 | 0.04 | 0.74 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 20 | 0.74 | 0.08 | 0.72 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 20 | 0.74 | 0.08 | 0.72 |
| (2,4083) | 1:126:A:ILE:HD12 | 1:74:A:PHE:HB3 | 20 | 0.74 | 0.08 | 0.72 |
| (2,4435) | 1:59:A:ILE:HD13 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,4435) | 1:59:A:ILE:HD11 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 20 | 0.73 | 0.03 | 0.74 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 20 | 0.73 | 0.2 | 0.63 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 20 | 0.73 | 0.2 | 0.63 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD3 | 20 | 0.73 | 0.2 | 0.63 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 20 | 0.73 | 0.2 | 0.63 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 20 | 0.73 | 0.2 | 0.63 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD3 | 20 | 0.73 | 0.2 | 0.63 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 20 | 0.73 | 0.18 | 0.65 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 20 | 0.73 | 0.2 | 0.74 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 20 | 0.73 | 0.08 | 0.74 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 20 | 0.73 | 0.08 | 0.74 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 20 | 0.73 | 0.08 | 0.74 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HA | 20 | 0.73 | 0.35 | 0.72 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:131:A:GLY:HA3 | 20 | 0.73 | 0.35 | 0.72 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 20 | 0.73 | 0.35 | 0.72 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:131:A:GLY:HA3 | 20 | 0.73 | 0.35 | 0.72 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HA | 20 | 0.73 | 0.35 | 0.72 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HA | 20 | 0.73 | 0.35 | 0.72 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG23 | 20 | 0.73 | 0.05 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 20 | 0.73 | 0.05 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG21 | 20 | 0.73 | 0.05 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB3 | 1:31:A:ILE:HG22 | 20 | 0.73 | 0.05 | 0.73 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3618) | 1:32:A:ASP:HB3 | 1:31:A:ILE:HG23 | 20 | 0.73 | 0.05 | 0.73 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 20 | 0.72 | 0.07 | 0.72 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 20 | 0.72 | 0.07 | 0.72 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 20 | 0.72 | 0.07 | 0.72 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 20 | 0.72 | 0.1 | 0.74 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 20 | 0.72 | 0.1 | 0.74 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 20 | 0.72 | 0.1 | 0.74 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD12 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD11 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD11 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD12 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD12 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD13 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD13 | 20 | 0.72 | 0.7 | 0.51 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD13 | 20 | 0.72 | 0.7 | 0.51 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 20 | 0.72 | 0.03 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 20 | 0.72 | 0.03 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 20 | 0.72 | 0.03 | 0.72 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 20 | 0.72 | 0.03 | 0.72 |
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 20 | 0.72 | 0.03 | 0.72 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 20 | 0.72 | 0.03 | 0.72 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 20 | 0.72 | 0.1 | 0.71 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 20 | 0.71 | 0.06 | 0.71 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 20 | 0.71 | 0.06 | 0.71 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD13 | 20 | 0.71 | 0.06 | 0.71 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 20 | 0.7 | 0.04 | 0.7 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 20 | 0.7 | 0.04 | 0.7 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 20 | 0.7 | 0.04 | 0.7 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 20 | 0.7 | 0.09 | 0.69 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 20 | 0.7 | 0.09 | 0.69 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 20 | 0.7 | 0.09 | 0.69 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 20 | 0.7 | 0.06 | 0.7 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 20 | 0.7 | 0.06 | 0.7 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 20 | 0.7 | 0.06 | 0.7 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD12 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD11 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD12 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD12 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD13 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD11 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD11 | 20 | 0.7 | 0.07 | 0.74 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD13 | 20 | 0.7 | 0.07 | 0.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD13 | 20 | 0.7 | 0.07 | 0.74 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 20 | 0.7 | 0.17 | 0.76 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 20 | 0.7 | 0.17 | 0.76 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 20 | 0.7 | 0.17 | 0.76 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 20 | 0.7 | 0.08 | 0.7 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 20 | 0.7 | 0.08 | 0.7 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD2 | 20 | 0.7 | 0.08 | 0.7 |
| (2,4570) | 1:149:A:ILE:HG21 | 1:148:A:GLU:HA | 20 | 0.7 | 0.08 | 0.7 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 20 | 0.7 | 0.08 | 0.7 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 20 | 0.7 | 0.08 | 0.7 |
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 20 | 0.7 | 0.08 | 0.7 |
| (2,4570) | 1:149:A:ILE:HG22 | 1:148:A:GLU:HA | 20 | 0.7 | 0.08 | 0.7 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 20 | 0.7 | 0.16 | 0.67 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 20 | 0.7 | 0.16 | 0.67 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB3 | 20 | 0.7 | 0.16 | 0.67 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 20 | 0.7 | 0.12 | 0.7 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 20 | 0.7 | 0.12 | 0.7 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 20 | 0.7 | 0.24 | 0.72 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 20 | 0.7 | 0.24 | 0.72 |
| (2,4536) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 20 | 0.7 | 0.24 | 0.72 |
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 20 | 0.69 | 0.07 | 0.69 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 20 | 0.69 | 0.07 | 0.69 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 20 | 0.69 | 0.07 | 0.69 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 20 | 0.69 | 0.16 | 0.74 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE1 | 20 | 0.69 | 0.16 | 0.74 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE2 | 20 | 0.69 | 0.16 | 0.74 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 20 | 0.69 | 0.03 | 0.68 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 20 | 0.69 | 0.03 | 0.68 |
| (2,1209) | 1:29:A:LEU:HD22 | 1:56:A:ASN:H | 20 | 0.69 | 0.03 | 0.68 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 20 | 0.69 | 0.04 | 0.68 |
| (2,2078) | 1:155:A:THR:HG22 | 1:139:A:ARG:HA | 20 | 0.69 | 0.04 | 0.68 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 20 | 0.69 | 0.04 | 0.68 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 20 | 0.69 | 0.34 | 0.7 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:142:A:HIS:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:136:A:GLN:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HA | 20 | 0.69 | 0.15 | 0.68 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 20 | 0.68 | 0.64 | 0.29 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD12 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD11 | 20 | 0.68 | 0.55 | 0.56 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD12 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD13 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD13 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD13 | 20 | 0.68 | 0.55 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD11 | 20 | 0.68 | 0.55 | 0.56 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 20 | 0.68 | 0.08 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:89:A:VAL:HG22 | 20 | 0.68 | 0.08 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 20 | 0.68 | 0.08 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG23 | 20 | 0.68 | 0.08 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:89:A:VAL:HG23 | 20 | 0.68 | 0.08 | 0.69 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 20 | 0.68 | 0.08 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 20 | 0.68 | 0.08 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 20 | 0.68 | 0.08 | 0.66 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 20 | 0.68 | 0.27 | 0.78 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 20 | 0.68 | 0.14 | 0.62 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 20 | 0.68 | 0.14 | 0.62 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 20 | 0.68 | 0.14 | 0.62 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 20 | 0.67 | 0.05 | 0.69 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 20 | 0.67 | 0.05 | 0.69 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 20 | 0.67 | 0.05 | 0.69 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 20 | 0.67 | 0.1 | 0.68 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 20 | 0.67 | 0.1 | 0.68 |
| (2,4493) | 1:29:A:LEU:HD23 | 1:130:A:ALA:HA | 20 | 0.67 | 0.1 | 0.68 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 20 | 0.67 | 0.05 | 0.68 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 20 | 0.67 | 0.19 | 0.78 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 20 | 0.66 | 0.13 | 0.7 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 20 | 0.66 | 0.13 | 0.7 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 20 | 0.66 | 0.13 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG12 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG21 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG21 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG21 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG11 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG23 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG23 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG22 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG23 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG22 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG22 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG12 | 20 | 0.66 | 0.2 | 0.7 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG11 | 20 | 0.66 | 0.2 | 0.7 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD13 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD13 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD11 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD12 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD12 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD12 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD11 | 20 | 0.65 | 0.05 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD11 | 20 | 0.65 | 0.05 | 0.66 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 20 | 0.65 | 0.02 | 0.65 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 20 | 0.65 | 0.02 | 0.65 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 20 | 0.65 | 0.02 | 0.65 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 20 | 0.65 | 0.12 | 0.64 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 20 | 0.65 | 0.12 | 0.64 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 20 | 0.65 | 0.12 | 0.64 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 20 | 0.65 | 0.06 | 0.64 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 20 | 0.65 | 0.06 | 0.64 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 20 | 0.65 | 0.06 | 0.64 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 20 | 0.65 | 0.09 | 0.62 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 20 | 0.65 | 0.09 | 0.62 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 20 | 0.65 | 0.09 | 0.62 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 20 | 0.65 | 0.05 | 0.66 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 20 | 0.65 | 0.12 | 0.66 |
| (2,4506) | 1:77:A:LEU:HD13 | 1:81:A:LEU:HA | 20 | 0.65 | 0.12 | 0.66 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 20 | 0.65 | 0.12 | 0.66 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 20 | 0.64 | 0.1 | 0.64 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 20 | 0.64 | 0.1 | 0.64 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 20 | 0.64 | 0.1 | 0.64 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 20 | 0.64 | 0.05 | 0.66 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 20 | 0.64 | 0.05 | 0.66 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 20 | 0.64 | 0.05 | 0.66 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 20 | 0.64 | 0.15 | 0.67 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 20 | 0.64 | 0.15 | 0.67 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 20 | 0.64 | 0.15 | 0.67 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 20 | 0.64 | 0.11 | 0.6 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG23 | 20 | 0.64 | 0.11 | 0.6 |
| (2,4039) | 1:45:A:ARG:HA | 1:38:A:THR:HG23 | 20 | 0.64 | 0.11 | 0.6 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 20 | 0.64 | 0.11 | 0.6 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 20 | 0.64 | 0.13 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HB | 20 | 0.64 | 0.13 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:141:A:LEU:HB3 | 20 | 0.64 | 0.13 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 20 | 0.64 | 0.13 | 0.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4474) | 1:77:A:LEU:HD11 | 1:145:A:LEU:HG | 20 | 0.64 | 0.13 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:138:A:GLU:HB2 | 20 | 0.64 | 0.13 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 20 | 0.64 | 0.05 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 20 | 0.64 | 0.05 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 20 | 0.64 | 0.05 | 0.66 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 20 | 0.63 | 0.0 | 0.63 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 20 | 0.63 | 0.18 | 0.68 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG21 | 20 | 0.63 | 0.18 | 0.68 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 20 | 0.63 | 0.18 | 0.68 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 20 | 0.63 | 0.12 | 0.62 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 20 | 0.63 | 0.12 | 0.62 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 20 | 0.63 | 0.01 | 0.63 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 20 | 0.63 | 0.01 | 0.63 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 20 | 0.63 | 0.01 | 0.63 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 20 | 0.63 | 0.22 | 0.68 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 20 | 0.63 | 0.22 | 0.68 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD13 | 20 | 0.63 | 0.22 | 0.68 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG21 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG22 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG22 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG21 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG21 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG23 | 20 | 0.62 | 0.04 | 0.63 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG22 | 20 | 0.62 | 0.04 | 0.63 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 20 | 0.62 | 0.35 | 0.52 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 20 | 0.62 | 0.35 | 0.52 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 20 | 0.62 | 0.35 | 0.52 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 20 | 0.62 | 0.11 | 0.6 |
| (2,3614) | 1:32:A:ASP:HB2 | 1:123:A:GLU:HB3 | 20 | 0.62 | 0.11 | 0.6 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD23 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD23 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD21 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD22 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD22 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD23 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD21 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD21 | 20 | 0.62 | 0.05 | 0.62 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD22 | 20 | 0.62 | 0.05 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 20 | 0.62 | 0.03 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 20 | 0.62 | 0.03 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD11 | 20 | 0.62 | 0.03 | 0.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 20 | 0.61 | 0.08 | 0.61 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 20 | 0.61 | 0.08 | 0.61 |
| (2,2014) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HD22 | 20 | 0.61 | 0.08 | 0.61 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 20 | 0.61 | 0.19 | 0.68 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 20 | 0.61 | 0.19 | 0.68 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 20 | 0.61 | 0.19 | 0.68 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 20 | 0.61 | 0.24 | 0.59 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 20 | 0.61 | 0.24 | 0.59 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 20 | 0.61 | 0.24 | 0.59 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG22 | 20 | 0.6 | 0.08 | 0.6 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 20 | 0.6 | 0.08 | 0.6 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG23 | 20 | 0.6 | 0.08 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 20 | 0.6 | 0.0 | 0.6 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 20 | 0.6 | 0.15 | 0.64 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 20 | 0.6 | 0.15 | 0.64 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 20 | 0.6 | 0.15 | 0.64 |
| (2,4492) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 20 | 0.6 | 0.15 | 0.64 |
| (2,4492) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 20 | 0.6 | 0.15 | 0.64 |
| (2,4492) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 20 | 0.6 | 0.15 | 0.64 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:49:A:TYR:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,4084) | 1:51:A:ILE:HD11 | 1:34:A:SER:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:49:A:TYR:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,4084) | 1:51:A:ILE:HD11 | 1:49:A:TYR:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:34:A:SER:H | 20 | 0.6 | 0.08 | 0.61 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 20 | 0.6 | 0.17 | 0.57 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 20 | 0.6 | 0.17 | 0.57 |
| (2,3762) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 20 | 0.6 | 0.17 | 0.57 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 20 | 0.6 | 0.18 | 0.6 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 20 | 0.6 | 0.18 | 0.6 |
| (2,3764) | 1:53:A:VAL:HG23 | 1:30:A:GLU:HG3 | 20 | 0.6 | 0.18 | 0.6 |
| (2,1134) | 1:59:A:ILE:HD13 | 1:159:A:ILE:H | 20 | 0.59 | 0.04 | 0.6 |
| (2,1134) | 1:59:A:ILE:HD11 | 1:159:A:ILE:H | 20 | 0.59 | 0.04 | 0.6 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 20 | 0.59 | 0.04 | 0.6 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 20 | 0.59 | 0.34 | 0.49 |
| (2,4426) | 1:18:A:LEU:HA | 1:19:A:ASN:HB2 | 20 | 0.59 | 0.34 | 0.49 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 20 | 0.59 | 0.04 | 0.58 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 20 | 0.59 | 0.08 | 0.6 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 20 | 0.59 | 0.08 | 0.6 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 20 | 0.59 | 0.08 | 0.6 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 20 | 0.59 | 0.03 | 0.58 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 20 | 0.59 | 0.03 | 0.58 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 20 | 0.59 | 0.03 | 0.58 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 20 | 0.58 | 0.1 | 0.61 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 20 | 0.58 | 0.1 | 0.61 |
| (2,3450) | 1:130:A:ALA:HB3 | 1:132:A:HIS:H | 20 | 0.58 | 0.1 | 0.61 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 20 | 0.58 | 0.05 | 0.57 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 20 | 0.58 | 0.06 | 0.58 |
| (2,2263) | 1:134:A:LEU:HD22 | 1:135:A:ALA:HA | 20 | 0.58 | 0.09 | 0.6 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 20 | 0.58 | 0.09 | 0.6 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 20 | 0.58 | 0.09 | 0.6 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 20 | 0.58 | 0.03 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 20 | 0.58 | 0.03 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 20 | 0.58 | 0.03 | 0.57 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG22 | 20 | 0.58 | 0.11 | 0.58 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 20 | 0.58 | 0.11 | 0.58 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 20 | 0.58 | 0.11 | 0.58 |
| (2,3956) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG21 | 20 | 0.58 | 0.11 | 0.58 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 20 | 0.57 | 0.13 | 0.6 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG12 | 20 | 0.57 | 0.13 | 0.6 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 20 | 0.57 | 0.13 | 0.6 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG21 | 20 | 0.57 | 0.13 | 0.6 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 20 | 0.57 | 0.03 | 0.57 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 20 | 0.57 | 0.15 | 0.61 |
| (2,247) | 1:150:A:ILE:HG23 | 1:76:A:TRP:HZ2 | 20 | 0.57 | 0.15 | 0.61 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 20 | 0.57 | 0.15 | 0.61 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 20 | 0.57 | 0.01 | 0.57 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 20 | 0.57 | 0.17 | 0.63 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 20 | 0.57 | 0.17 | 0.63 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 20 | 0.57 | 0.17 | 0.63 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD3 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD3 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD3 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD2 | 20 | 0.56 | 0.23 | 0.48 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 20 | 0.56 | 0.07 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 20 | 0.56 | 0.07 | 0.6 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 20 | 0.56 | 0.1 | 0.55 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:53:A:VAL:HB | 20 | 0.56 | 0.1 | 0.55 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 20 | 0.56 | 0.04 | 0.56 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 20 | 0.56 | 0.04 | 0.56 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG22 | 20 | 0.56 | 0.04 | 0.56 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 20 | 0.56 | 0.05 | 0.56 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 20 | 0.55 | 0.02 | 0.56 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 20 | 0.55 | 0.08 | 0.54 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 20 | 0.55 | 0.08 | 0.54 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 20 | 0.55 | 0.08 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 20 | 0.55 | 0.01 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 20 | 0.55 | 0.01 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD22 | 20 | 0.55 | 0.01 | 0.55 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 20 | 0.55 | 0.27 | 0.5 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 20 | 0.55 | 0.27 | 0.5 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 20 | 0.55 | 0.27 | 0.5 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 20 | 0.55 | 0.05 | 0.54 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 20 | 0.55 | 0.07 | 0.56 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB2 | 20 | 0.55 | 0.07 | 0.56 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 20 | 0.54 | 0.15 | 0.57 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 20 | 0.54 | 0.15 | 0.57 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG22 | 20 | 0.54 | 0.15 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD13 | 20 | 0.54 | 0.13 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD11 | 20 | 0.54 | 0.13 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 20 | 0.54 | 0.13 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD23 | 20 | 0.54 | 0.13 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD22 | 20 | 0.54 | 0.13 | 0.57 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 20 | 0.53 | 0.22 | 0.55 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 20 | 0.53 | 0.22 | 0.55 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 20 | 0.53 | 0.22 | 0.55 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 20 | 0.53 | 0.32 | 0.41 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 20 | 0.53 | 0.04 | 0.54 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 20 | 0.53 | 0.06 | 0.55 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 20 | 0.53 | 0.06 | 0.55 |
| (2,1245) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 20 | 0.53 | 0.06 | 0.55 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 20 | 0.53 | 0.11 | 0.55 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HA | 20 | 0.53 | 0.11 | 0.55 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 20 | 0.53 | 0.02 | 0.54 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 20 | 0.53 | 0.02 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD12 | 20 | 0.53 | 0.02 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 20 | 0.53 | 0.02 | 0.53 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 20 | 0.53 | 0.06 | 0.54 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 20 | 0.53 | 0.07 | 0.5 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 20 | 0.52 | 0.18 | 0.46 |
| (2,3890) | 1:93:A:PRO:HG2 | 1:92:A:LEU:H | 20 | 0.52 | 0.18 | 0.46 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 20 | 0.52 | 0.1 | 0.5 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 20 | 0.52 | 0.03 | 0.52 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 20 | 0.52 | 0.09 | 0.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 20 | 0.52 | 0.11 | 0.55 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 20 | 0.52 | 0.11 | 0.55 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 20 | 0.52 | 0.11 | 0.55 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 20 | 0.52 | 0.28 | 0.29 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 20 | 0.51 | 0.01 | 0.52 |
| (2,4437) | 1:31:A:ILE:HG22 | 1:53:A:VAL:HG12 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG11 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG11 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG12 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG13 | 20 | 0.51 | 0.09 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG13 | 20 | 0.51 | 0.09 | 0.53 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 20 | 0.51 | 0.05 | 0.51 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 20 | 0.51 | 0.05 | 0.51 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 20 | 0.51 | 0.05 | 0.51 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 20 | 0.51 | 0.07 | 0.52 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 20 | 0.51 | 0.07 | 0.52 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG12 | 20 | 0.51 | 0.07 | 0.52 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG13 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG13 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG13 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG11 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG11 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG12 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG12 | 20 | 0.51 | 0.06 | 0.52 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG12 | 20 | 0.51 | 0.06 | 0.52 |
| (2,4240) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 20 | 0.51 | 0.2 | 0.54 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 20 | 0.51 | 0.2 | 0.54 |
| (2,4240) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 20 | 0.51 | 0.2 | 0.54 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:145:A:LEU:HB2 | 20 | 0.51 | 0.2 | 0.54 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 20 | 0.51 | 0.1 | 0.55 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 20 | 0.5 | 0.03 | 0.5 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 20 | 0.5 | 0.03 | 0.5 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 20 | 0.5 | 0.03 | 0.5 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG13 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG13 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG13 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG12 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG11 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG12 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 20 | 0.5 | 0.04 | 0.49 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG12 | 20 | 0.5 | 0.04 | 0.49 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 20 | 0.49 | 0.01 | 0.5 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 20 | 0.49 | 0.02 | 0.49 |
| (2,3977) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HG2 | 20 | 0.49 | 0.02 | 0.49 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 20 | 0.49 | 0.08 | 0.5 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 20 | 0.49 | 0.05 | 0.48 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG23 | 20 | 0.49 | 0.05 | 0.48 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 20 | 0.49 | 0.05 | 0.48 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 20 | 0.49 | 0.15 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 20 | 0.49 | 0.15 | 0.37 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 20 | 0.48 | 0.04 | 0.5 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 20 | 0.48 | 0.36 | 0.32 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 20 | 0.48 | 0.36 | 0.32 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 20 | 0.48 | 0.01 | 0.48 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 20 | 0.48 | 0.16 | 0.45 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 20 | 0.48 | 0.16 | 0.45 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 20 | 0.48 | 0.08 | 0.48 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 20 | 0.48 | 0.08 | 0.48 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 20 | 0.48 | 0.08 | 0.48 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 20 | 0.48 | 0.05 | 0.49 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE1 | 20 | 0.48 | 0.05 | 0.49 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 20 | 0.48 | 0.06 | 0.48 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 20 | 0.48 | 0.06 | 0.48 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 20 | 0.48 | 0.06 | 0.48 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 20 | 0.48 | 0.09 | 0.52 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 20 | 0.48 | 0.08 | 0.49 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 20 | 0.48 | 0.08 | 0.49 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 20 | 0.48 | 0.08 | 0.49 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 20 | 0.47 | 0.25 | 0.36 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 20 | 0.47 | 0.04 | 0.48 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 20 | 0.47 | 0.04 | 0.48 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 20 | 0.47 | 0.04 | 0.48 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 20 | 0.47 | 0.11 | 0.48 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:84:A:GLU:H | 20 | 0.47 | 0.11 | 0.48 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG21 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG21 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG22 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG21 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG22 | 20 | 0.47 | 0.11 | 0.5 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 20 | 0.47 | 0.11 | 0.5 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 20 | 0.46 | 0.03 | 0.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 20 | 0.46 | 0.03 | 0.46 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 20 | 0.46 | 0.03 | 0.46 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 20 | 0.46 | 0.03 | 0.46 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 20 | 0.46 | 0.04 | 0.45 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 20 | 0.46 | 0.04 | 0.45 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 20 | 0.46 | 0.04 | 0.45 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 20 | 0.45 | 0.03 | 0.46 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 20 | 0.45 | 0.09 | 0.48 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 20 | 0.45 | 0.09 | 0.48 |
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 20 | 0.45 | 0.09 | 0.48 |
| (2,4704) | 1:77:A:LEU:HD23 | 1:78:A:ARG:H | 20 | 0.45 | 0.09 | 0.48 |
| (2,4704) | 1:77:A:LEU:HD21 | 1:78:A:ARG:H | 20 | 0.45 | 0.09 | 0.48 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 20 | 0.45 | 0.19 | 0.42 |
| (2,4832) | 1:63:A:LYS:HE2 | 1:64:A:GLU:H | 20 | 0.45 | 0.19 | 0.42 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 20 | 0.45 | 0.1 | 0.47 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 20 | 0.45 | 0.01 | 0.45 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 20 | 0.45 | 0.25 | 0.48 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 20 | 0.45 | 0.05 | 0.45 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 20 | 0.45 | 0.04 | 0.44 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 20 | 0.45 | 0.04 | 0.44 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 20 | 0.45 | 0.04 | 0.44 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 20 | 0.45 | 0.06 | 0.44 |
| (2,1672) | 1:31:A:ILE:HG21 | 1:127:A:ASN:H | 20 | 0.45 | 0.17 | 0.48 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 20 | 0.45 | 0.17 | 0.48 |
| (2,1672) | 1:31:A:ILE:HG22 | 1:127:A:ASN:H | 20 | 0.45 | 0.17 | 0.48 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 20 | 0.45 | 0.03 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 20 | 0.45 | 0.03 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 20 | 0.45 | 0.03 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 20 | 0.45 | 0.02 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 20 | 0.45 | 0.02 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 20 | 0.45 | 0.02 | 0.44 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 20 | 0.44 | 0.06 | 0.44 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 20 | 0.44 | 0.04 | 0.44 |
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 20 | 0.44 | 0.04 | 0.44 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 20 | 0.44 | 0.04 | 0.44 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 20 | 0.44 | 0.05 | 0.44 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 20 | 0.44 | 0.1 | 0.4 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD11 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD13 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD13 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD13 | 20 | 0.44 | 0.08 | 0.43 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3793) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD11 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD13 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD12 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD13 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD12 | 20 | 0.44 | 0.08 | 0.43 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:145:A:LEU:HD13 | 20 | 0.44 | 0.08 | 0.43 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 20 | 0.44 | 0.09 | 0.44 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 20 | 0.44 | 0.09 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 20 | 0.43 | 0.02 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 20 | 0.43 | 0.02 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 20 | 0.43 | 0.02 | 0.44 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 20 | 0.43 | 0.01 | 0.43 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 20 | 0.42 | 0.06 | 0.42 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 20 | 0.42 | 0.06 | 0.42 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 20 | 0.42 | 0.06 | 0.42 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 20 | 0.42 | 0.09 | 0.41 |
| (2,1401) | 1:39:A:VAL:HG22 | 1:46:A:PHE:HE2 | 20 | 0.42 | 0.09 | 0.41 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 20 | 0.42 | 0.09 | 0.41 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 20 | 0.42 | 0.13 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 20 | 0.42 | 0.13 | 0.34 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 20 | 0.42 | 0.03 | 0.42 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 20 | 0.42 | 0.04 | 0.42 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 20 | 0.42 | 0.04 | 0.42 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 20 | 0.42 | 0.04 | 0.42 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 20 | 0.42 | 0.09 | 0.4 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:89:A:VAL:HB | 20 | 0.42 | 0.09 | 0.4 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 20 | 0.42 | 0.09 | 0.4 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HB2 | 20 | 0.42 | 0.09 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 20 | 0.41 | 0.02 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 20 | 0.41 | 0.02 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 20 | 0.41 | 0.02 | 0.41 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 20 | 0.41 | 0.1 | 0.42 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 20 | 0.41 | 0.1 | 0.42 |
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 20 | 0.41 | 0.1 | 0.42 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 20 | 0.41 | 0.12 | 0.4 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 20 | 0.41 | 0.05 | 0.41 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB3 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB3 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB1 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB2 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB1 | 20 | 0.41 | 0.07 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB2 | 20 | 0.41 | 0.07 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB1 | 20 | 0.41 | 0.07 | 0.44 |
| (2,917) | 1:109:A:ILE:HG22 | 1:110:A:PHE:H | 20 | 0.41 | 0.05 | 0.42 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 20 | 0.41 | 0.05 | 0.42 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 20 | 0.41 | 0.05 | 0.42 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD2 | 20 | 0.4 | 0.17 | 0.43 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 20 | 0.4 | 0.17 | 0.43 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD2 | 20 | 0.4 | 0.17 | 0.43 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD1 | 20 | 0.4 | 0.17 | 0.43 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD1 | 20 | 0.4 | 0.17 | 0.43 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD1 | 20 | 0.4 | 0.17 | 0.43 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 20 | 0.4 | 0.01 | 0.4 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 20 | 0.4 | 0.15 | 0.45 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 20 | 0.4 | 0.15 | 0.45 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 20 | 0.4 | 0.15 | 0.45 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 20 | 0.4 | 0.04 | 0.39 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 20 | 0.4 | 0.16 | 0.46 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD2 | 20 | 0.4 | 0.16 | 0.46 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 20 | 0.4 | 0.16 | 0.46 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 20 | 0.4 | 0.16 | 0.46 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 20 | 0.4 | 0.15 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 20 | 0.39 | 0.14 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:60:A:PHE:HE2 | 20 | 0.39 | 0.14 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:131:A:GLY:H | 20 | 0.39 | 0.14 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:60:A:PHE:HE2 | 20 | 0.39 | 0.14 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB2 | 1:131:A:GLY:H | 20 | 0.39 | 0.14 | 0.38 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 20 | 0.39 | 0.02 | 0.39 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE1 | 20 | 0.39 | 0.02 | 0.39 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 20 | 0.39 | 0.09 | 0.38 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 20 | 0.39 | 0.09 | 0.38 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG13 | 20 | 0.39 | 0.09 | 0.38 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG21 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG23 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG22 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG23 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG22 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG22 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG21 | 20 | 0.39 | 0.03 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG23 | 20 | 0.39 | 0.03 | 0.38 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 20 | 0.39 | 0.02 | 0.39 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 20 | 0.39 | 0.02 | 0.39 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2264) | 1:134:A:LEU:HD12 | 1:133:A:PRO:HA | 20 | 0.39 | 0.02 | 0.39 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 20 | 0.39 | 0.04 | 0.38 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 20 | 0.39 | 0.04 | 0.38 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 20 | 0.39 | 0.04 | 0.38 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 20 | 0.39 | 0.11 | 0.36 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 20 | 0.39 | 0.02 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 20 | 0.39 | 0.02 | 0.39 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 20 | 0.39 | 0.07 | 0.38 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 20 | 0.39 | 0.07 | 0.38 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 20 | 0.39 | 0.07 | 0.38 |
| (2,4801) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 20 | 0.38 | 0.02 | 0.38 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 20 | 0.38 | 0.02 | 0.38 |
| (2,4801) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 20 | 0.38 | 0.02 | 0.38 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 20 | 0.38 | 0.1 | 0.4 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 20 | 0.38 | 0.1 | 0.4 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 20 | 0.38 | 0.04 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG23 | 20 | 0.38 | 0.04 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 20 | 0.38 | 0.04 | 0.39 |
| (2,4623) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 20 | 0.38 | 0.07 | 0.35 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 20 | 0.38 | 0.07 | 0.35 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 20 | 0.38 | 0.07 | 0.35 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 20 | 0.38 | 0.08 | 0.4 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 20 | 0.38 | 0.08 | 0.4 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 20 | 0.38 | 0.08 | 0.4 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 20 | 0.38 | 0.17 | 0.4 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HG3 | 20 | 0.38 | 0.17 | 0.4 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 20 | 0.38 | 0.04 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HZ | 20 | 0.38 | 0.04 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 20 | 0.38 | 0.04 | 0.38 |
| (2,2354) | 1:59:A:ILE:HD12 | 1:60:A:PHE:HZ | 20 | 0.37 | 0.03 | 0.37 |
| (2,2354) | 1:59:A:ILE:HD13 | 1:60:A:PHE:HZ | 20 | 0.37 | 0.03 | 0.37 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 20 | 0.37 | 0.03 | 0.37 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 20 | 0.37 | 0.09 | 0.34 |
| (2,3818) | 1:128:A:LYS:HE3 | 1:128:A:LYS:H | 20 | 0.37 | 0.09 | 0.34 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 20 | 0.37 | 0.08 | 0.37 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 20 | 0.37 | 0.08 | 0.37 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD13 | 20 | 0.37 | 0.08 | 0.37 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 20 | 0.37 | 0.03 | 0.36 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 20 | 0.37 | 0.03 | 0.36 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 20 | 0.37 | 0.03 | 0.36 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 20 | 0.37 | 0.05 | 0.36 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 20 | 0.37 | 0.05 | 0.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 20 | 0.37 | 0.05 | 0.36 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 20 | 0.37 | 0.17 | 0.3 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 20 | 0.37 | 0.17 | 0.3 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 20 | 0.37 | 0.17 | 0.3 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 20 | 0.37 | 0.01 | 0.37 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 20 | 0.37 | 0.08 | 0.37 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 20 | 0.37 | 0.08 | 0.37 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 20 | 0.37 | 0.06 | 0.38 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG22 | 20 | 0.37 | 0.06 | 0.38 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 20 | 0.37 | 0.06 | 0.38 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 20 | 0.36 | 0.19 | 0.34 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 20 | 0.36 | 0.19 | 0.34 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 20 | 0.36 | 0.19 | 0.34 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 20 | 0.36 | 0.02 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 20 | 0.36 | 0.02 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 20 | 0.36 | 0.02 | 0.36 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 20 | 0.36 | 0.05 | 0.36 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 20 | 0.36 | 0.05 | 0.36 |
| (2,4480) | 1:92:A:LEU:HD13 | 1:76:A:TRP:H | 20 | 0.36 | 0.05 | 0.36 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 20 | 0.36 | 0.08 | 0.36 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 20 | 0.36 | 0.08 | 0.36 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 20 | 0.36 | 0.08 | 0.36 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 20 | 0.36 | 0.02 | 0.36 |
| (2,355) | 1:89:A:VAL:HG12 | 1:129:A:VAL:H | 20 | 0.36 | 0.02 | 0.36 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 20 | 0.36 | 0.02 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 20 | 0.36 | 0.05 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 20 | 0.36 | 0.05 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 20 | 0.36 | 0.05 | 0.36 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 20 | 0.36 | 0.04 | 0.36 |
| (2,1520) | 1:57:A:LEU:HD11 | 1:60:A:PHE:H | 20 | 0.36 | 0.04 | 0.36 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 20 | 0.36 | 0.04 | 0.36 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 20 | 0.36 | 0.07 | 0.38 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 20 | 0.36 | 0.07 | 0.38 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 20 | 0.36 | 0.07 | 0.38 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 20 | 0.36 | 0.13 | 0.33 |
| (2,4204) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD22 | 20 | 0.36 | 0.13 | 0.33 |
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 20 | 0.36 | 0.03 | 0.36 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 20 | 0.36 | 0.03 | 0.36 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 20 | 0.36 | 0.03 | 0.36 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 20 | 0.35 | 0.04 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 20 | 0.35 | 0.04 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 20 | 0.35 | 0.04 | 0.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 20 | 0.35 | 0.01 | 0.36 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD13 | 20 | 0.35 | 0.01 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD13 | 1:18:A:LEU:HG | 20 | 0.35 | 0.01 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 20 | 0.35 | 0.01 | 0.36 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD11 | 20 | 0.35 | 0.01 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 20 | 0.35 | 0.02 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 20 | 0.35 | 0.02 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 20 | 0.35 | 0.02 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 20 | 0.35 | 0.01 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 20 | 0.35 | 0.01 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 20 | 0.35 | 0.01 | 0.35 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 20 | 0.35 | 0.11 | 0.38 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 20 | 0.35 | 0.11 | 0.38 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 20 | 0.35 | 0.11 | 0.38 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 20 | 0.34 | 0.03 | 0.34 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 20 | 0.34 | 0.03 | 0.34 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 20 | 0.34 | 0.03 | 0.34 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 20 | 0.34 | 0.02 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 20 | 0.34 | 0.01 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 20 | 0.34 | 0.01 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 20 | 0.34 | 0.01 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 20 | 0.34 | 0.01 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 20 | 0.33 | 0.02 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 20 | 0.33 | 0.02 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 20 | 0.33 | 0.02 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE2 | 20 | 0.33 | 0.06 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 20 | 0.33 | 0.06 | 0.34 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD11 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD13 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD11 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD12 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD13 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD12 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD13 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD12 | 20 | 0.33 | 0.09 | 0.35 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 20 | 0.33 | 0.09 | 0.32 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 20 | 0.33 | 0.02 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 20 | 0.33 | 0.02 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB3 | 20 | 0.33 | 0.02 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 20 | 0.33 | 0.01 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 20 | 0.33 | 0.01 | 0.33 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1360) | 1:6:A:ALA:HB2 | 1:6:A:ALA:HA | 20 | 0.33 | 0.01 | 0.33 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD23 | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:18:A:LEU:HD21 | 1:18:A:LEU:HG | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD22 | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:18:A:LEU:HD23 | 1:18:A:LEU:HG | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:18:A:LEU:HD22 | 1:18:A:LEU:HG | 20 | 0.33 | 0.04 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 20 | 0.33 | 0.04 | 0.35 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 20 | 0.33 | 0.08 | 0.34 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 20 | 0.33 | 0.08 | 0.34 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 20 | 0.33 | 0.08 | 0.34 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 20 | 0.33 | 0.03 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD2 | 1:63:A:LYS:HE3 | 20 | 0.33 | 0.03 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD2 | 1:63:A:LYS:HE2 | 20 | 0.33 | 0.03 | 0.33 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 20 | 0.33 | 0.01 | 0.33 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 20 | 0.33 | 0.01 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 20 | 0.33 | 0.01 | 0.33 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 20 | 0.33 | 0.04 | 0.34 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 20 | 0.32 | 0.02 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG2 | 20 | 0.32 | 0.02 | 0.32 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 20 | 0.32 | 0.1 | 0.3 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 20 | 0.32 | 0.1 | 0.3 |
| (2,3826) | 1:128:A:LYS:HE3 | 1:128:A:LYS:HG3 | 20 | 0.32 | 0.1 | 0.3 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 20 | 0.32 | 0.02 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 20 | 0.32 | 0.02 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 20 | 0.32 | 0.02 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 20 | 0.32 | 0.03 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 20 | 0.32 | 0.03 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG21 | 1:32:A:ASP:H | 20 | 0.32 | 0.03 | 0.32 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 20 | 0.32 | 0.13 | 0.25 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 20 | 0.32 | 0.1 | 0.34 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 20 | 0.32 | 0.1 | 0.34 |
| (2,539) | 1:143:A:MET:HE2 | 1:154:A:TYR:H | 20 | 0.32 | 0.1 | 0.34 |
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 20 | 0.32 | 0.06 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 20 | 0.32 | 0.06 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 20 | 0.32 | 0.06 | 0.32 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 20 | 0.32 | 0.11 | 0.32 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD2 | 20 | 0.32 | 0.11 | 0.32 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 20 | 0.31 | 0.02 | 0.31 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 20 | 0.31 | 0.04 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 20 | 0.31 | 0.04 | 0.32 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 20 | 0.31 | 0.04 | 0.32 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 20 | 0.31 | 0.04 | 0.31 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 20 | 0.31 | 0.04 | 0.31 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 20 | 0.31 | 0.04 | 0.31 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 20 | 0.31 | 0.08 | 0.3 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 20 | 0.31 | 0.03 | 0.31 |
| (2,3684) | 1:155:A:THR:HG21 | 1:156:A:PRO:HD2 | 20 | 0.31 | 0.03 | 0.31 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 20 | 0.31 | 0.03 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 20 | 0.31 | 0.01 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 20 | 0.31 | 0.01 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 20 | 0.31 | 0.01 | 0.31 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 20 | 0.31 | 0.06 | 0.31 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 20 | 0.31 | 0.06 | 0.31 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 20 | 0.31 | 0.06 | 0.31 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 20 | 0.31 | 0.07 | 0.3 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 20 | 0.31 | 0.01 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 20 | 0.31 | 0.01 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 20 | 0.31 | 0.01 | 0.31 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 20 | 0.3 | 0.12 | 0.28 |
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 20 | 0.3 | 0.12 | 0.28 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 20 | 0.3 | 0.12 | 0.28 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 20 | 0.3 | 0.07 | 0.29 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 20 | 0.3 | 0.09 | 0.31 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 20 | 0.3 | 0.01 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 20 | 0.3 | 0.01 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 20 | 0.3 | 0.01 | 0.3 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 20 | 0.3 | 0.09 | 0.29 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 20 | 0.3 | 0.09 | 0.29 |
| (2,542) | 1:143:A:MET:HE2 | 1:154:A:TYR:HE1 | 20 | 0.3 | 0.09 | 0.29 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 20 | 0.3 | 0.06 | 0.3 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 20 | 0.3 | 0.06 | 0.3 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 20 | 0.3 | 0.06 | 0.3 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD1 | 20 | 0.3 | 0.06 | 0.3 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 20 | 0.3 | 0.08 | 0.3 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 20 | 0.3 | 0.08 | 0.3 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 20 | 0.3 | 0.08 | 0.3 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD22 | 20 | 0.3 | 0.08 | 0.3 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 20 | 0.3 | 0.02 | 0.29 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 20 | 0.29 | 0.02 | 0.3 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 20 | 0.29 | 0.07 | 0.31 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 20 | 0.29 | 0.01 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 20 | 0.29 | 0.01 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 20 | 0.29 | 0.01 | 0.29 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD11 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD13 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD11 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD12 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD13 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD13 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD12 | 20 | 0.29 | 0.05 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD12 | 20 | 0.29 | 0.05 | 0.3 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 20 | 0.29 | 0.1 | 0.26 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 20 | 0.29 | 0.1 | 0.28 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 20 | 0.29 | 0.1 | 0.28 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD12 | 20 | 0.29 | 0.1 | 0.28 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 20 | 0.28 | 0.03 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG2 | 20 | 0.28 | 0.03 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG3 | 20 | 0.28 | 0.03 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD3 | 1:9:A:ARG:HG2 | 20 | 0.28 | 0.03 | 0.29 |
| (2,4401) | 1:10:A:ARG:HD3 | 1:10:A:ARG:HG3 | 20 | 0.28 | 0.03 | 0.29 |
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 20 | 0.28 | 0.01 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 20 | 0.28 | 0.01 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 20 | 0.28 | 0.01 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 20 | 0.28 | 0.01 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 20 | 0.28 | 0.01 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 20 | 0.28 | 0.01 | 0.28 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 20 | 0.28 | 0.07 | 0.3 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 20 | 0.28 | 0.06 | 0.29 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 20 | 0.28 | 0.06 | 0.29 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 20 | 0.28 | 0.06 | 0.29 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 20 | 0.28 | 0.04 | 0.27 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 20 | 0.28 | 0.04 | 0.27 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 20 | 0.28 | 0.04 | 0.27 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 20 | 0.28 | 0.04 | 0.27 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 20 | 0.27 | 0.03 | 0.26 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE1 | 20 | 0.27 | 0.03 | 0.26 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 20 | 0.27 | 0.1 | 0.33 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 20 | 0.27 | 0.1 | 0.33 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 20 | 0.27 | 0.07 | 0.29 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 20 | 0.27 | 0.03 | 0.27 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 20 | 0.27 | 0.04 | 0.27 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 20 | 0.27 | 0.04 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 20 | 0.27 | 0.04 | 0.27 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 20 | 0.27 | 0.04 | 0.28 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 20 | 0.26 | 0.04 | 0.27 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 20 | 0.26 | 0.05 | 0.26 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 20 | 0.26 | 0.04 | 0.26 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 20 | 0.26 | 0.02 | 0.26 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 20 | 0.26 | 0.02 | 0.26 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 20 | 0.26 | 0.02 | 0.26 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 20 | 0.26 | 0.08 | 0.28 |
| (2,1489) | 1:29:A:LEU:HD12 | 1:55:A:THR:HA | 20 | 0.26 | 0.08 | 0.28 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 20 | 0.26 | 0.08 | 0.28 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 20 | 0.26 | 0.07 | 0.26 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 20 | 0.26 | 0.04 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 20 | 0.26 | 0.02 | 0.26 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 20 | 0.26 | 0.02 | 0.26 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 20 | 0.26 | 0.02 | 0.26 |
| (2,2095) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 20 | 0.26 | 0.08 | 0.22 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 20 | 0.26 | 0.08 | 0.22 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 20 | 0.26 | 0.08 | 0.22 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 20 | 0.25 | 0.03 | 0.26 |
| (2,608) | 1:129:A:VAL:HG13 | 1:126:A:ILE:HA | 20 | 0.25 | 0.03 | 0.26 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 20 | 0.25 | 0.03 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 20 | 0.25 | 0.01 | 0.25 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 20 | 0.25 | 0.07 | 0.23 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 20 | 0.25 | 0.07 | 0.23 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 20 | 0.25 | 0.01 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 20 | 0.25 | 0.01 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 20 | 0.25 | 0.01 | 0.25 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 20 | 0.25 | 0.01 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 20 | 0.25 | 0.01 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 20 | 0.25 | 0.01 | 0.24 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 20 | 0.24 | 0.09 | 0.22 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 20 | 0.24 | 0.09 | 0.22 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 20 | 0.24 | 0.02 | 0.25 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 20 | 0.24 | 0.03 | 0.24 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 20 | 0.24 | 0.03 | 0.24 |
| (2,1351) | 1:51:A:ILE:HG22 | 1:66:A:THR:HA | 20 | 0.24 | 0.03 | 0.24 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 20 | 0.24 | 0.08 | 0.24 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 20 | 0.24 | 0.09 | 0.21 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 20 | 0.24 | 0.04 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 20 | 0.24 | 0.01 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 20 | 0.24 | 0.01 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 20 | 0.24 | 0.01 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 20 | 0.24 | 0.02 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 20 | 0.24 | 0.02 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 20 | 0.24 | 0.02 | 0.24 |
| (2,4405) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 20 | 0.24 | 0.02 | 0.24 |
| (2,4405) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 20 | 0.24 | 0.02 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 20 | 0.23 | 0.03 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HB3 | 20 | 0.23 | 0.03 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 20 | 0.23 | 0.03 | 0.24 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD21 | 20 | 0.23 | 0.03 | 0.24 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD22 | 20 | 0.23 | 0.03 | 0.24 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD23 | 20 | 0.23 | 0.03 | 0.24 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 20 | 0.23 | 0.03 | 0.23 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 20 | 0.23 | 0.03 | 0.23 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 20 | 0.23 | 0.03 | 0.23 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 20 | 0.23 | 0.05 | 0.24 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 20 | 0.23 | 0.03 | 0.24 |
| (2,1212) | 1:29:A:LEU:HD11 | 1:57:A:LEU:H | 20 | 0.23 | 0.03 | 0.24 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 20 | 0.23 | 0.03 | 0.24 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 20 | 0.23 | 0.01 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 20 | 0.23 | 0.01 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 20 | 0.22 | 0.02 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 20 | 0.22 | 0.02 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD13 | 20 | 0.22 | 0.02 | 0.23 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 20 | 0.22 | 0.04 | 0.22 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 20 | 0.22 | 0.01 | 0.22 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 20 | 0.22 | 0.04 | 0.22 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 20 | 0.22 | 0.04 | 0.22 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 20 | 0.22 | 0.04 | 0.22 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 20 | 0.22 | 0.03 | 0.23 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 20 | 0.22 | 0.05 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 20 | 0.22 | 0.0 | 0.22 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 20 | 0.22 | 0.03 | 0.22 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE1 | 20 | 0.22 | 0.03 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 20 | 0.22 | 0.03 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 20 | 0.22 | 0.03 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG23 | 20 | 0.22 | 0.03 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 20 | 0.22 | 0.01 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 20 | 0.22 | 0.01 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 20 | 0.22 | 0.01 | 0.22 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 20 | 0.22 | 0.05 | 0.22 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 20 | 0.22 | 0.05 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4082) | 1:126:A:ILE:HD13 | 1:129:A:VAL:H | 20 | 0.22 | 0.05 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 20 | 0.22 | 0.02 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 20 | 0.22 | 0.02 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 20 | 0.22 | 0.02 | 0.21 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 20 | 0.21 | 0.04 | 0.22 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 20 | 0.21 | 0.04 | 0.22 |
| (2,596) | 1:129:A:VAL:HG13 | 1:128:A:LYS:H | 20 | 0.21 | 0.04 | 0.22 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 20 | 0.21 | 0.04 | 0.22 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 20 | 0.21 | 0.01 | 0.21 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 20 | 0.21 | 0.02 | 0.22 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 20 | 0.21 | 0.0 | 0.21 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 20 | 0.2 | 0.01 | 0.2 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 20 | 0.2 | 0.01 | 0.2 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 20 | 0.2 | 0.01 | 0.2 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG23 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG21 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG22 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG22 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG21 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG23 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG21 | 20 | 0.2 | 0.02 | 0.2 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG22 | 20 | 0.2 | 0.02 | 0.2 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 20 | 0.2 | 0.06 | 0.18 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 20 | 0.2 | 0.06 | 0.18 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 20 | 0.19 | 0.02 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 20 | 0.19 | 0.02 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 20 | 0.19 | 0.02 | 0.2 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 20 | 0.19 | 0.04 | 0.18 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 20 | 0.19 | 0.04 | 0.18 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 20 | 0.19 | 0.04 | 0.18 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 20 | 0.18 | 0.02 | 0.18 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 20 | 0.18 | 0.02 | 0.18 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 20 | 0.18 | 0.02 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 20 | 0.17 | 0.01 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 20 | 0.17 | 0.01 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 20 | 0.17 | 0.0 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 20 | 0.17 | 0.0 | 0.17 |
| (2,3698) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HB2 | 20 | 0.17 | 0.0 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 20 | 0.16 | 0.01 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD13 | 1:59:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD11 | 1:59:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 20 | 0.16 | 0.02 | 0.16 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 20 | 0.15 | 0.03 | 0.14 |
| (2,1406) | 1:39:A:VAL:HG21 | 1:39:A:VAL:HA | 20 | 0.15 | 0.03 | 0.14 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 20 | 0.15 | 0.03 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:88:A:VAL:HA | 20 | 0.15 | 0.02 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 20 | 0.15 | 0.02 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:130:A:ALA:HA | 20 | 0.15 | 0.02 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 20 | 0.15 | 0.02 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 20 | 0.14 | 0.01 | 0.14 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 20 | 0.14 | 0.02 | 0.14 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 20 | 0.14 | 0.02 | 0.14 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 20 | 0.13 | 0.01 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 20 | 0.13 | 0.01 | 0.13 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 20 | 0.12 | 0.02 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HG3 | 20 | 0.12 | 0.02 | 0.12 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 19 | 1.03 | 0.36 | 1.18 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 19 | 1.03 | 0.36 | 1.18 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 19 | 1.03 | 0.68 | 0.91 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 19 | 1.03 | 0.68 | 0.91 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 19 | 1.03 | 0.68 | 0.91 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 19 | 0.96 | 0.29 | 1.04 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HB2 | 19 | 0.96 | 0.29 | 1.04 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 19 | 0.89 | 0.31 | 0.89 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 19 | 0.89 | 0.31 | 0.89 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:66:A:THR:HA | 19 | 0.89 | 0.31 | 0.89 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 19 | 0.81 | 0.79 | 0.36 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 19 | 0.81 | 0.79 | 0.36 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 19 | 0.81 | 0.79 | 0.36 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 19 | 0.79 | 0.18 | 0.79 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 19 | 0.79 | 0.18 | 0.79 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD1 | 19 | 0.79 | 0.18 | 0.79 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD3 | 19 | 0.76 | 0.19 | 0.77 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 19 | 0.76 | 0.19 | 0.77 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD2 | 19 | 0.76 | 0.19 | 0.77 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 19 | 0.75 | 0.09 | 0.72 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 19 | 0.75 | 0.67 | 0.21 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 19 | 0.73 | 0.44 | 1.05 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 19 | 0.72 | 0.43 | 0.65 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 19 | 0.7 | 0.14 | 0.68 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 19 | 0.7 | 0.14 | 0.68 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 19 | 0.7 | 0.14 | 0.68 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 19 | 0.7 | 0.23 | 0.74 |
| (2,4847) | 1:76:A:TRP:H | 1:71:A:TYR:HD1 | 19 | 0.7 | 0.23 | 0.74 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 19 | 0.69 | 0.16 | 0.72 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 19 | 0.69 | 0.16 | 0.72 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE3 | 19 | 0.69 | 0.16 | 0.72 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:109:A:ILE:HA | 19 | 0.66 | 0.27 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 19 | 0.66 | 0.27 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HB3 | 19 | 0.66 | 0.27 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 19 | 0.66 | 0.27 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:110:A:PHE:HB3 | 19 | 0.66 | 0.27 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:110:A:PHE:HB3 | 19 | 0.66 | 0.27 | 0.59 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 19 | 0.64 | 0.23 | 0.65 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 19 | 0.64 | 0.24 | 0.65 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:76:A:TRP:H | 19 | 0.64 | 0.24 | 0.65 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:77:A:LEU:H | 19 | 0.64 | 0.24 | 0.65 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 19 | 0.63 | 0.33 | 0.81 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD13 | 19 | 0.63 | 0.14 | 0.68 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD11 | 19 | 0.63 | 0.14 | 0.68 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 19 | 0.63 | 0.14 | 0.68 |
| (2,2410) | 1:109:A:ILE:HG23 | 1:114:A:PHE:HB2 | 19 | 0.51 | 0.09 | 0.52 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 19 | 0.51 | 0.09 | 0.52 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 19 | 0.51 | 0.09 | 0.52 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 19 | 0.5 | 0.28 | 0.45 |
| (2,4182) | 1:141:A:LEU:HD12 | 1:143:A:MET:HG2 | 19 | 0.5 | 0.28 | 0.45 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 19 | 0.5 | 0.28 | 0.45 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD13 | 19 | 0.5 | 0.28 | 0.45 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD11 | 19 | 0.5 | 0.28 | 0.45 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 19 | 0.5 | 0.25 | 0.49 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 19 | 0.5 | 0.25 | 0.49 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 19 | 0.5 | 0.25 | 0.49 |
| (2,4714) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 19 | 0.47 | 0.11 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 19 | 0.47 | 0.11 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 19 | 0.47 | 0.11 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD13 | 1:101:A:LEU:H | 19 | 0.47 | 0.11 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD11 | 1:101:A:LEU:H | 19 | 0.47 | 0.11 | 0.48 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 19 | 0.47 | 0.18 | 0.47 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 19 | 0.47 | 0.18 | 0.47 |
| (2,4727) | 1:33:A:VAL:HG23 | 1:50:A:GLU:H | 19 | 0.47 | 0.18 | 0.47 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 19 | 0.46 | 0.14 | 0.44 |
| (2,4713) | 1:143:A:MET:HE1 | 1:141:A:LEU:H | 19 | 0.46 | 0.14 | 0.44 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 19 | 0.46 | 0.16 | 0.46 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 19 | 0.46 | 0.16 | 0.46 |
| (2,1147) | 1:122:A:LEU:HD12 | 1:93:A:PRO:HB3 | 19 | 0.46 | 0.16 | 0.46 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD11 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD13 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD12 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD11 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD13 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD13 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD12 | 19 | 0.44 | 0.07 | 0.45 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD11 | 19 | 0.44 | 0.07 | 0.45 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 19 | 0.43 | 0.08 | 0.41 |
| (2,4683) | 1:137:A:ASN:H | 1:132:A:HIS:HD2 | 19 | 0.43 | 0.08 | 0.41 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 19 | 0.43 | 0.16 | 0.44 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG3 | 19 | 0.43 | 0.16 | 0.44 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 19 | 0.4 | 0.12 | 0.41 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 19 | 0.4 | 0.12 | 0.41 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG22 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG22 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG22 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 19 | 0.39 | 0.15 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG21 | 19 | 0.39 | 0.15 | 0.4 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 19 | 0.39 | 0.31 | 0.34 |
| (2,2212) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HZ | 19 | 0.39 | 0.31 | 0.34 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 19 | 0.39 | 0.31 | 0.34 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 19 | 0.38 | 0.19 | 0.29 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 19 | 0.37 | 0.09 | 0.4 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 19 | 0.37 | 0.07 | 0.37 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD22 | 19 | 0.37 | 0.07 | 0.37 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 19 | 0.37 | 0.07 | 0.37 |
| (2,4335) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:81:A:LEU:HD21 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:77:A:LEU:HD21 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,4335) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HB3 | 19 | 0.37 | 0.12 | 0.38 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 19 | 0.36 | 0.06 | 0.35 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 19 | 0.36 | 0.06 | 0.35 |
| (2,1525) | 1:57:A:LEU:HD12 | 1:29:A:LEU:HA | 19 | 0.36 | 0.06 | 0.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 19 | 0.36 | 0.1 | 0.35 |
| (2,3622) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG12 | 19 | 0.36 | 0.1 | 0.35 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 19 | 0.35 | 0.21 | 0.41 |
| (2,3505) | 1:39:A:VAL:HG11 | 1:37:A:GLN:HE22 | 19 | 0.35 | 0.12 | 0.31 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 19 | 0.35 | 0.12 | 0.31 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 19 | 0.35 | 0.12 | 0.31 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 19 | 0.34 | 0.16 | 0.33 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD2 | 19 | 0.34 | 0.16 | 0.33 |
| (2,4733) | 1:111:A:ASP:H | 1:114:A:PHE:HE2 | 19 | 0.34 | 0.16 | 0.33 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 19 | 0.34 | 0.13 | 0.32 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 19 | 0.34 | 0.13 | 0.32 |
| (2,1357) | 1:51:A:ILE:HG21 | 1:34:A:SER:H | 19 | 0.34 | 0.13 | 0.32 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG21 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 19 | 0.32 | 0.09 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG23 | 19 | 0.32 | 0.09 | 0.36 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 19 | 0.31 | 0.1 | 0.35 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 19 | 0.31 | 0.24 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 19 | 0.31 | 0.24 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 19 | 0.31 | 0.24 | 0.24 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 19 | 0.31 | 0.1 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 19 | 0.31 | 0.1 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE2 | 19 | 0.31 | 0.1 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE1 | 19 | 0.31 | 0.1 | 0.3 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:78:A:ARG:HB2 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:78:A:ARG:HB2 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD11 | 1:78:A:ARG:HB2 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HG3 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HG3 | 19 | 0.3 | 0.09 | 0.33 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 19 | 0.27 | 0.05 | 0.28 |
| (2,3728) | 1:89:A:VAL:HG11 | 1:78:A:ARG:HG2 | 19 | 0.27 | 0.05 | 0.28 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 19 | 0.27 | 0.05 | 0.28 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 19 | 0.25 | 0.01 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 19 | 0.25 | 0.1 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 19 | 0.25 | 0.1 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD12 | 19 | 0.25 | 0.1 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:55:A:THR:HG21 | 19 | 0.25 | 0.1 | 0.25 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 19 | 0.24 | 0.07 | 0.27 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 19 | 0.24 | 0.07 | 0.27 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 19 | 0.24 | 0.07 | 0.27 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG3 | 19 | 0.24 | 0.07 | 0.27 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 19 | 0.24 | 0.07 | 0.22 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 19 | 0.21 | 0.04 | 0.21 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 19 | 0.21 | 0.08 | 0.18 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 19 | 0.21 | 0.08 | 0.18 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 19 | 0.2 | 0.03 | 0.2 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 19 | 0.2 | 0.03 | 0.2 |
| (2,2805) | 1:126:A:ILE:HD13 | 1:130:A:ALA:H | 19 | 0.2 | 0.03 | 0.2 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 19 | 0.19 | 0.06 | 0.16 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 19 | 0.19 | 0.06 | 0.16 |
| (2,1922) | 1:33:A:VAL:HG23 | 1:33:A:VAL:HA | 19 | 0.19 | 0.06 | 0.16 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 19 | 0.18 | 0.02 | 0.18 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 19 | 0.18 | 0.02 | 0.18 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 19 | 0.18 | 0.02 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 19 | 0.18 | 0.03 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 19 | 0.18 | 0.03 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 19 | 0.18 | 0.03 | 0.18 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 19 | 0.18 | 0.04 | 0.18 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 19 | 0.18 | 0.04 | 0.18 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD13 | 19 | 0.18 | 0.04 | 0.18 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 19 | 0.18 | 0.05 | 0.17 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 19 | 0.18 | 0.05 | 0.17 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 19 | 0.18 | 0.05 | 0.17 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 19 | 0.17 | 0.03 | 0.17 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 19 | 0.17 | 0.03 | 0.17 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 19 | 0.17 | 0.03 | 0.18 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE3 | 19 | 0.17 | 0.03 | 0.18 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 19 | 0.15 | 0.02 | 0.15 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD21 | 19 | 0.15 | 0.03 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 19 | 0.15 | 0.03 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 19 | 0.15 | 0.03 | 0.17 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD13 | 1:12:A:ILE:HG13 | 19 | 0.14 | 0.01 | 0.14 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 19 | 0.11 | 0.01 | 0.11 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 18 | 1.11 | 0.17 | 1.1 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4505) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HA | 18 | 1.11 | 0.17 | 1.1 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 18 | 1.11 | 0.17 | 1.1 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 18 | 0.98 | 0.11 | 1.01 |
| (2,4283) | 1:86:A:LYS:HE3 | 1:86:A:LYS:HG2 | 18 | 0.98 | 0.11 | 1.01 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 18 | 0.95 | 0.19 | 0.99 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 18 | 0.95 | 0.19 | 0.99 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 18 | 0.95 | 0.19 | 0.99 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 18 | 0.83 | 0.04 | 0.82 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 18 | 0.83 | 0.04 | 0.82 |
| (2,533) | 1:143:A:MET:HE1 | 1:143:A:MET:HG2 | 18 | 0.83 | 0.04 | 0.82 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:150:A:ILE:HD13 | 1:145:A:LEU:H | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG12 | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:150:A:ILE:HD12 | 1:145:A:LEU:H | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:150:A:ILE:HD11 | 1:145:A:LEU:H | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG23 | 18 | 0.8 | 0.26 | 0.81 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG21 | 18 | 0.8 | 0.26 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB2 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB3 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB2 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB1 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB1 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB3 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB2 | 18 | 0.79 | 0.14 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB3 | 18 | 0.79 | 0.14 | 0.81 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD13 | 18 | 0.79 | 0.45 | 0.76 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 18 | 0.79 | 0.45 | 0.76 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 18 | 0.79 | 0.45 | 0.76 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 18 | 0.74 | 0.25 | 0.83 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 18 | 0.74 | 0.25 | 0.83 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 18 | 0.74 | 0.25 | 0.83 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 18 | 0.72 | 0.04 | 0.72 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 18 | 0.72 | 0.04 | 0.72 |
| (2,2314) | 1:77:A:LEU:HD22 | 1:125:A:PHE:HZ | 18 | 0.72 | 0.04 | 0.72 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 18 | 0.67 | 0.02 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD11 | 18 | 0.67 | 0.02 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 18 | 0.67 | 0.02 | 0.67 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 18 | 0.67 | 0.19 | 0.66 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 18 | 0.59 | 0.09 | 0.6 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HA | 18 | 0.59 | 0.09 | 0.6 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 18 | 0.59 | 0.09 | 0.6 |
| (2,4471) | 1:77:A:LEU:HD13 | 1:141:A:LEU:HA | 18 | 0.59 | 0.09 | 0.6 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4471) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HA | 18 | 0.59 | 0.09 | 0.6 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 18 | 0.57 | 0.18 | 0.5 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 18 | 0.57 | 0.18 | 0.5 |
| (2,4775) | 1:11:A:LEU:H | 1:10:A:ARG:HG2 | 18 | 0.57 | 0.18 | 0.5 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD12 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD13 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD12 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD12 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD11 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD11 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD11 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD13 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4475) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD11 | 18 | 0.56 | 0.18 | 0.56 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 18 | 0.55 | 0.18 | 0.55 |
| (2,4418) | 1:77:A:LEU:HD12 | 1:144:A:PHE:H | 18 | 0.55 | 0.18 | 0.55 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 18 | 0.55 | 0.18 | 0.55 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 18 | 0.54 | 0.23 | 0.49 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB3 | 18 | 0.54 | 0.23 | 0.49 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 18 | 0.54 | 0.09 | 0.52 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 18 | 0.54 | 0.09 | 0.52 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD13 | 18 | 0.54 | 0.09 | 0.52 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 18 | 0.49 | 0.2 | 0.52 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 18 | 0.49 | 0.2 | 0.52 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 18 | 0.49 | 0.2 | 0.52 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 18 | 0.48 | 0.18 | 0.51 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 18 | 0.47 | 0.22 | 0.46 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD2 | 18 | 0.43 | 0.16 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD2 | 18 | 0.43 | 0.16 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 18 | 0.43 | 0.16 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD1 | 18 | 0.43 | 0.16 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD1 | 18 | 0.43 | 0.16 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD1 | 18 | 0.43 | 0.16 | 0.42 |
| (2,3631) | 1:82:A:GLU:HA | 1:85:A:SER:HB2 | 18 | 0.42 | 0.04 | 0.42 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 18 | 0.42 | 0.04 | 0.42 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 18 | 0.41 | 0.11 | 0.43 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 18 | 0.41 | 0.11 | 0.43 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 18 | 0.41 | 0.11 | 0.43 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 18 | 0.4 | 0.19 | 0.36 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 18 | 0.36 | 0.12 | 0.42 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 18 | 0.36 | 0.12 | 0.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2011) | 1:134:A:LEU:HD12 | 1:88:A:VAL:H | 18 | 0.36 | 0.12 | 0.42 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 18 | 0.33 | 0.14 | 0.32 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG3 | 18 | 0.33 | 0.14 | 0.32 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 18 | 0.31 | 0.16 | 0.23 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 18 | 0.31 | 0.16 | 0.23 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD21 | 18 | 0.31 | 0.16 | 0.23 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 18 | 0.31 | 0.06 | 0.32 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 18 | 0.31 | 0.06 | 0.32 |
| (2,3707) | 1:92:A:LEU:HD23 | 1:78:A:ARG:H | 18 | 0.31 | 0.06 | 0.32 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 18 | 0.31 | 0.09 | 0.33 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 18 | 0.31 | 0.09 | 0.33 |
| (2,151) | 1:66:A:THR:HG23 | 1:50:A:GLU:H | 18 | 0.31 | 0.09 | 0.33 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD12 | 1:144:A:PHE:HE1 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE2 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE2 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD12 | 1:144:A:PHE:HE2 | 18 | 0.31 | 0.08 | 0.29 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 18 | 0.31 | 0.04 | 0.29 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 18 | 0.3 | 0.07 | 0.3 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 18 | 0.3 | 0.07 | 0.3 |
| (2,1386) | 1:135:A:ALA:HB2 | 1:130:A:ALA:H | 18 | 0.3 | 0.07 | 0.3 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:11:A:LEU:H | 18 | 0.29 | 0.14 | 0.27 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 18 | 0.29 | 0.14 | 0.27 |
| (2,4249) | 1:12:A:ILE:HD13 | 1:12:A:ILE:H | 18 | 0.29 | 0.14 | 0.27 |
| (2,4249) | 1:12:A:ILE:HD12 | 1:11:A:LEU:H | 18 | 0.29 | 0.14 | 0.27 |
| (2,4249) | 1:12:A:ILE:HD12 | 1:12:A:ILE:H | 18 | 0.29 | 0.14 | 0.27 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 18 | 0.29 | 0.03 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD11 | 1:33:A:VAL:HA | 18 | 0.29 | 0.03 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 18 | 0.29 | 0.03 | 0.28 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 18 | 0.27 | 0.1 | 0.24 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 18 | 0.27 | 0.1 | 0.24 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 18 | 0.26 | 0.05 | 0.27 |
| (2,2444) | 1:67:A:VAL:HG13 | 1:68:A:ARG:H | 18 | 0.25 | 0.08 | 0.24 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 18 | 0.25 | 0.08 | 0.24 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 18 | 0.25 | 0.08 | 0.24 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 18 | 0.23 | 0.13 | 0.16 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 18 | 0.23 | 0.13 | 0.16 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 18 | 0.22 | 0.06 | 0.22 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 18 | 0.22 | 0.06 | 0.22 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 18 | 0.22 | 0.06 | 0.22 |
| (2,3849) | 1:55:A:THR:HG21 | 1:29:A:LEU:HD13 | 18 | 0.22 | 0.08 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD13 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG21 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD11 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD12 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD12 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD13 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 18 | 0.22 | 0.08 | 0.21 |
| (2,3849) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 18 | 0.22 | 0.08 | 0.21 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 18 | 0.21 | 0.12 | 0.16 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 18 | 0.21 | 0.12 | 0.16 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG22 | 18 | 0.21 | 0.12 | 0.16 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 18 | 0.21 | 0.02 | 0.21 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 18 | 0.21 | 0.08 | 0.19 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:120:A:GLN:HB3 | 18 | 0.21 | 0.08 | 0.19 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 18 | 0.2 | 0.05 | 0.22 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 18 | 0.2 | 0.05 | 0.22 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG23 | 18 | 0.2 | 0.05 | 0.22 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 18 | 0.2 | 0.11 | 0.17 |
| (2,4205) | 1:158:A:LYS:HD3 | 1:159:A:ILE:H | 18 | 0.2 | 0.11 | 0.17 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 18 | 0.17 | 0.03 | 0.17 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 18 | 0.17 | 0.03 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 18 | 0.17 | 0.01 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 18 | 0.17 | 0.01 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 18 | 0.17 | 0.01 | 0.17 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 18 | 0.16 | 0.05 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 18 | 0.15 | 0.03 | 0.15 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 18 | 0.14 | 0.01 | 0.14 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 17 | 0.93 | 0.16 | 0.96 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 17 | 0.92 | 0.21 | 0.98 |
| (2,4252) | 1:63:A:LYS:HE2 | 1:60:A:PHE:H | 17 | 0.92 | 0.21 | 0.98 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 17 | 0.76 | 0.04 | 0.78 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 17 | 0.74 | 0.13 | 0.73 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 17 | 0.71 | 0.06 | 0.71 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 17 | 0.71 | 0.06 | 0.71 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 17 | 0.65 | 0.22 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 17 | 0.65 | 0.22 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 17 | 0.65 | 0.22 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:77:A:LEU:H | 17 | 0.65 | 0.22 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:77:A:LEU:H | 17 | 0.65 | 0.22 | 0.73 |
| (2,2747) | 1:122:A:LEU:HD21 | 1:121:A:GLY:H | 17 | 0.64 | 0.07 | 0.66 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 17 | 0.64 | 0.07 | 0.66 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2747) | 1:122:A:LEU:HD23 | 1:121:A:GLY:H | 17 | 0.64 | 0.07 | 0.66 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 17 | 0.58 | 0.28 | 0.71 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 17 | 0.54 | 0.02 | 0.54 |
| (2,748) | 1:122:A:LEU:HD21 | 1:122:A:LEU:H | 17 | 0.52 | 0.1 | 0.56 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 17 | 0.52 | 0.1 | 0.56 |
| (2,748) | 1:122:A:LEU:HD23 | 1:122:A:LEU:H | 17 | 0.52 | 0.1 | 0.56 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 17 | 0.52 | 0.09 | 0.53 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 17 | 0.52 | 0.09 | 0.53 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG21 | 17 | 0.52 | 0.09 | 0.53 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 17 | 0.5 | 0.35 | 0.33 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 17 | 0.45 | 0.31 | 0.35 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 17 | 0.44 | 0.17 | 0.37 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 17 | 0.44 | 0.17 | 0.37 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD23 | 17 | 0.44 | 0.17 | 0.37 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 17 | 0.42 | 0.05 | 0.44 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 17 | 0.4 | 0.53 | 0.23 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 17 | 0.4 | 0.53 | 0.23 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 17 | 0.4 | 0.53 | 0.23 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 17 | 0.4 | 0.21 | 0.28 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:118:A:ARG:HA | 17 | 0.4 | 0.21 | 0.28 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 17 | 0.38 | 0.1 | 0.43 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 17 | 0.38 | 0.1 | 0.43 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG21 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 17 | 0.37 | 0.11 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG23 | 17 | 0.37 | 0.11 | 0.42 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB1 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB1 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD22 | 1:135:A:ALA:HB1 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB2 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB3 | 17 | 0.34 | 0.13 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB2 | 17 | 0.34 | 0.13 | 0.31 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 17 | 0.33 | 0.1 | 0.3 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG2 | 17 | 0.33 | 0.1 | 0.3 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 17 | 0.32 | 0.11 | 0.31 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 17 | 0.3 | 0.05 | 0.31 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 17 | 0.3 | 0.05 | 0.31 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG22 | 17 | 0.3 | 0.05 | 0.31 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 17 | 0.3 | 0.09 | 0.29 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 17 | 0.3 | 0.09 | 0.29 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 17 | 0.29 | 0.08 | 0.29 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 17 | 0.28 | 0.03 | 0.29 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 17 | 0.28 | 0.03 | 0.29 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 17 | 0.28 | 0.03 | 0.29 |
| (2,755) | 1:122:A:LEU:HD21 | 1:122:A:LEU:HA | 17 | 0.26 | 0.07 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 17 | 0.26 | 0.07 | 0.22 |
| (2,755) | 1:122:A:LEU:HD23 | 1:122:A:LEU:HA | 17 | 0.26 | 0.07 | 0.22 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 17 | 0.26 | 0.11 | 0.21 |
| (2,3739) | 1:87:A:VAL:HB | 1:86:A:LYS:H | 17 | 0.26 | 0.11 | 0.21 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 17 | 0.25 | 0.06 | 0.25 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 17 | 0.25 | 0.06 | 0.25 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 17 | 0.25 | 0.06 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 17 | 0.23 | 0.04 | 0.24 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 17 | 0.23 | 0.03 | 0.22 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 17 | 0.23 | 0.03 | 0.22 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 17 | 0.23 | 0.03 | 0.22 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 17 | 0.21 | 0.07 | 0.2 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 17 | 0.21 | 0.07 | 0.2 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 17 | 0.21 | 0.07 | 0.2 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 17 | 0.21 | 0.07 | 0.2 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 17 | 0.2 | 0.03 | 0.2 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 17 | 0.17 | 0.03 | 0.17 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 17 | 0.17 | 0.03 | 0.17 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 17 | 0.17 | 0.03 | 0.17 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 17 | 0.16 | 0.05 | 0.15 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 17 | 0.16 | 0.05 | 0.15 |
| (2,4052) | 1:29:A:LEU:HD22 | 1:57:A:LEU:HG | 17 | 0.16 | 0.05 | 0.15 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 17 | 0.13 | 0.02 | 0.12 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 17 | 0.13 | 0.02 | 0.12 |
| (2,681) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HB | 17 | 0.13 | 0.02 | 0.12 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 16 | 0.97 | 0.09 | 0.99 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 16 | 0.84 | 0.19 | 0.77 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 16 | 0.84 | 0.36 | 0.86 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 16 | 0.84 | 0.36 | 0.86 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 16 | 0.84 | 0.36 | 0.86 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG22 | 16 | 0.83 | 0.54 | 0.51 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 16 | 0.83 | 0.54 | 0.51 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 16 | 0.83 | 0.54 | 0.51 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG12 | 16 | 0.78 | 0.19 | 0.79 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 16 | 0.78 | 0.19 | 0.79 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 16 | 0.78 | 0.19 | 0.79 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG23 | 16 | 0.78 | 0.19 | 0.79 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG13 | 16 | 0.78 | 0.19 | 0.79 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 16 | 0.76 | 0.29 | 0.91 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 16 | 0.74 | 0.4 | 0.57 |
| (2,257) | 1:150:A:ILE:HD11 | 1:152:A:LYS:HE2 | 16 | 0.74 | 0.4 | 0.57 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 16 | 0.74 | 0.4 | 0.57 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 16 | 0.56 | 0.2 | 0.68 |
| (2,4465) | 1:61:A:LYS:HD3 | 1:62:A:LEU:HG | 16 | 0.56 | 0.2 | 0.68 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 16 | 0.55 | 0.26 | 0.52 |
| (2,2288) | 1:162:A:ALA:HB1 | 1:161:A:HIS:HB2 | 16 | 0.55 | 0.26 | 0.52 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 16 | 0.55 | 0.26 | 0.52 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 16 | 0.52 | 0.05 | 0.5 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 16 | 0.5 | 0.11 | 0.48 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:34:A:SER:HB2 | 16 | 0.5 | 0.11 | 0.48 |
| (2,3024) | 1:11:A:LEU:HD11 | 1:10:A:ARG:H | 16 | 0.47 | 0.31 | 0.4 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 16 | 0.47 | 0.31 | 0.4 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 16 | 0.47 | 0.31 | 0.4 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 16 | 0.46 | 0.19 | 0.44 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 16 | 0.38 | 0.08 | 0.4 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 16 | 0.38 | 0.08 | 0.4 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 16 | 0.38 | 0.1 | 0.37 |
| (2,3755) | 1:48:A:THR:HG22 | 1:68:A:ARG:HD3 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG22 | 1:46:A:PHE:HB2 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG21 | 1:46:A:PHE:HB2 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG22 | 1:68:A:ARG:HD2 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG21 | 1:68:A:ARG:HD3 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG21 | 1:68:A:ARG:HD2 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3755) | 1:48:A:THR:HG23 | 1:68:A:ARG:HD3 | 16 | 0.37 | 0.16 | 0.36 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 16 | 0.37 | 0.13 | 0.38 |
| (2,3708) | 1:92:A:LEU:HD12 | 1:78:A:ARG:H | 16 | 0.37 | 0.13 | 0.38 |
| (2,3708) | 1:92:A:LEU:HD13 | 1:78:A:ARG:H | 16 | 0.37 | 0.13 | 0.38 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 16 | 0.35 | 0.16 | 0.35 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 16 | 0.35 | 0.06 | 0.36 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 16 | 0.35 | 0.06 | 0.36 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 16 | 0.32 | 0.08 | 0.33 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 16 | 0.31 | 0.09 | 0.33 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 16 | 0.29 | 0.15 | 0.25 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE3 | 16 | 0.29 | 0.15 | 0.25 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 16 | 0.26 | 0.12 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 16 | 0.26 | 0.12 | 0.24 |
| (2,526) | 1:122:A:LEU:HD11 | 1:75:A:GLU:H | 16 | 0.26 | 0.12 | 0.24 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 16 | 0.24 | 0.09 | 0.22 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 16 | 0.24 | 0.09 | 0.22 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG21 | 16 | 0.24 | 0.09 | 0.22 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 16 | 0.23 | 0.05 | 0.22 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 16 | 0.23 | 0.05 | 0.24 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 16 | 0.23 | 0.05 | 0.24 |
| (2,150) | 1:66:A:THR:HG22 | 1:53:A:VAL:H | 16 | 0.23 | 0.05 | 0.24 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 16 | 0.22 | 0.1 | 0.19 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 16 | 0.22 | 0.1 | 0.19 |
| (2,531) | 1:143:A:MET:HE3 | 1:154:A:TYR:HB2 | 16 | 0.22 | 0.1 | 0.19 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 16 | 0.22 | 0.07 | 0.2 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 16 | 0.21 | 0.07 | 0.2 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 16 | 0.21 | 0.07 | 0.2 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 16 | 0.21 | 0.07 | 0.2 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 16 | 0.21 | 0.07 | 0.22 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 16 | 0.21 | 0.07 | 0.22 |
| (2,4462) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HA | 16 | 0.21 | 0.07 | 0.22 |
| (2,4462) | 1:62:A:LEU:HD21 | 1:61:A:LYS:HA | 16 | 0.21 | 0.07 | 0.22 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB3 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG23 | 1:130:A:ALA:HB2 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB1 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB3 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB2 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB1 | 16 | 0.21 | 0.07 | 0.2 |
| (2,623) | 1:129:A:VAL:HG23 | 1:130:A:ALA:HB3 | 16 | 0.21 | 0.07 | 0.2 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 16 | 0.18 | 0.05 | 0.18 |
| (2,2232) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HD1 | 16 | 0.18 | 0.05 | 0.18 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 16 | 0.18 | 0.05 | 0.18 |
| (2,1499) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD3 | 16 | 0.18 | 0.04 | 0.16 |
| (2,1499) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD3 | 16 | 0.18 | 0.04 | 0.16 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 16 | 0.18 | 0.04 | 0.16 |
| (2,4574) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HD2 | 16 | 0.17 | 0.05 | 0.16 |
| (2,4574) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HD2 | 16 | 0.17 | 0.05 | 0.16 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 16 | 0.17 | 0.05 | 0.16 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 16 | 0.16 | 0.05 | 0.15 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 16 | 0.16 | 0.05 | 0.15 |
| (2,311) | 1:92:A:LEU:HD12 | 1:92:A:LEU:H | 16 | 0.16 | 0.05 | 0.15 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 15 | 1.21 | 0.2 | 1.15 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 15 | 0.83 | 0.02 | 0.83 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD3 | 15 | 0.82 | 0.17 | 0.81 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 15 | 0.82 | 0.17 | 0.81 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 15 | 0.77 | 0.05 | 0.76 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 15 | 0.77 | 0.05 | 0.76 |
| (2,1102) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 15 | 0.77 | 0.05 | 0.76 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 15 | 0.73 | 0.11 | 0.76 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG2 | 15 | 0.72 | 0.44 | 0.95 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 15 | 0.72 | 0.44 | 0.95 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 15 | 0.58 | 0.22 | 0.62 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HB3 | 15 | 0.58 | 0.22 | 0.62 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 15 | 0.56 | 0.08 | 0.6 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 15 | 0.54 | 0.11 | 0.52 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 15 | 0.54 | 0.25 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 15 | 0.54 | 0.25 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD13 | 15 | 0.54 | 0.25 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HD13 | 15 | 0.54 | 0.25 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HD12 | 15 | 0.54 | 0.25 | 0.57 |
| (2,4770) | 1:10:A:ARG:H | 1:11:A:LEU:HB3 | 15 | 0.51 | 0.35 | 0.35 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG3 | 15 | 0.51 | 0.35 | 0.35 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 15 | 0.51 | 0.35 | 0.35 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 15 | 0.47 | 0.2 | 0.42 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 15 | 0.47 | 0.2 | 0.42 |
| (2,3768) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB3 | 15 | 0.45 | 0.26 | 0.32 |
| (2,3768) | 1:53:A:VAL:HG22 | 1:145:A:LEU:HB3 | 15 | 0.45 | 0.26 | 0.32 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 15 | 0.45 | 0.26 | 0.32 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:29:A:LEU:HG | 15 | 0.45 | 0.26 | 0.32 |
| (2,3768) | 1:53:A:VAL:HG22 | 1:29:A:LEU:HG | 15 | 0.45 | 0.26 | 0.32 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 15 | 0.42 | 0.12 | 0.46 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 15 | 0.42 | 0.12 | 0.46 |
| (2,2913) | 1:115:A:ILE:HD11 | 1:37:A:GLN:H | 15 | 0.42 | 0.12 | 0.46 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE1 | 15 | 0.4 | 0.11 | 0.36 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HE1 | 15 | 0.4 | 0.11 | 0.36 |
| (2,4122) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HE1 | 15 | 0.4 | 0.11 | 0.36 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE2 | 15 | 0.4 | 0.11 | 0.36 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:125:A:PHE:HD2 | 15 | 0.4 | 0.11 | 0.36 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 15 | 0.38 | 0.16 | 0.41 |
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 15 | 0.38 | 0.16 | 0.41 |
| (2,4760) | 1:5:A:VAL:HG12 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |
| (2,4760) | 1:5:A:VAL:HG23 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |
| (2,4760) | 1:5:A:VAL:HG13 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |
| (2,4760) | 1:5:A:VAL:HG21 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4760) | 1:5:A:VAL:HG11 | 1:4:A:THR:H | 15 | 0.38 | 0.19 | 0.34 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG21 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG21 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG23 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG22 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG23 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG23 | 15 | 0.37 | 0.14 | 0.41 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG22 | 15 | 0.37 | 0.14 | 0.41 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 15 | 0.36 | 0.13 | 0.39 |
| (2,3947) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 15 | 0.36 | 0.13 | 0.39 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 15 | 0.36 | 0.13 | 0.39 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 15 | 0.35 | 0.07 | 0.38 |
| (2,2094) | 1:98:A:LEU:HD22 | 1:97:A:PHE:HZ | 15 | 0.35 | 0.07 | 0.38 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 15 | 0.35 | 0.07 | 0.38 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 15 | 0.34 | 0.08 | 0.32 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 15 | 0.34 | 0.08 | 0.32 |
| (2,428) | 1:13:A:THR:HG22 | 1:12:A:ILE:H | 15 | 0.34 | 0.08 | 0.32 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 15 | 0.3 | 0.13 | 0.23 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG22 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG22 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG22 | 15 | 0.3 | 0.13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG21 | 15 | 0.3 | 0.13 | 0.29 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 15 | 0.29 | 0.07 | 0.28 |
| (2,4872) | 1:113:A:ASN:H | 1:117:A:GLU:HG2 | 15 | 0.29 | 0.07 | 0.28 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 15 | 0.29 | 0.1 | 0.26 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 15 | 0.29 | 0.1 | 0.26 |
| (2,4102) | 1:51:A:ILE:HG22 | 1:53:A:VAL:HB | 15 | 0.29 | 0.1 | 0.26 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 15 | 0.28 | 0.08 | 0.3 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:29:A:LEU:HB3 | 15 | 0.28 | 0.08 | 0.3 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 15 | 0.28 | 0.08 | 0.3 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB2 | 15 | 0.28 | 0.08 | 0.3 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 15 | 0.26 | 0.09 | 0.25 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 15 | 0.26 | 0.09 | 0.25 |
| (2,3289) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 15 | 0.26 | 0.09 | 0.25 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD11 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD13 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD12 | 15 | 0.24 | 0.07 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD13 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD12 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD13 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD12 | 15 | 0.24 | 0.07 | 0.22 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD11 | 15 | 0.24 | 0.07 | 0.22 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 15 | 0.24 | 0.09 | 0.27 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 15 | 0.24 | 0.09 | 0.27 |
| (2,4327) | 1:33:A:VAL:HG21 | 1:122:A:LEU:H | 15 | 0.24 | 0.09 | 0.27 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG23 | 15 | 0.22 | 0.08 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 15 | 0.22 | 0.08 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD11 | 15 | 0.22 | 0.08 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD13 | 15 | 0.22 | 0.08 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG22 | 15 | 0.22 | 0.08 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG21 | 15 | 0.22 | 0.08 | 0.2 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 15 | 0.18 | 0.08 | 0.17 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 15 | 0.18 | 0.08 | 0.17 |
| (2,530) | 1:143:A:MET:HE1 | 1:150:A:ILE:HA | 15 | 0.18 | 0.08 | 0.17 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 15 | 0.17 | 0.04 | 0.18 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 15 | 0.17 | 0.07 | 0.14 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 15 | 0.17 | 0.07 | 0.14 |
| (2,540) | 1:143:A:MET:HE2 | 1:76:A:TRP:HZ2 | 15 | 0.17 | 0.07 | 0.14 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 15 | 0.16 | 0.04 | 0.16 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 15 | 0.14 | 0.02 | 0.14 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 15 | 0.13 | 0.02 | 0.13 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 15 | 0.12 | 0.01 | 0.11 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 14 | 1.09 | 0.23 | 1.15 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 14 | 1.06 | 0.45 | 1.15 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 14 | 1.06 | 0.45 | 1.15 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB2 | 14 | 1.06 | 0.45 | 1.15 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 14 | 1.02 | 0.36 | 1.08 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 14 | 0.98 | 0.1 | 0.96 |
| (2,1372) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HE1 | 14 | 0.98 | 0.1 | 0.96 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 14 | 0.98 | 0.1 | 0.96 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE2 | 14 | 0.98 | 0.1 | 0.96 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 14 | 0.8 | 0.26 | 0.84 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD21 | 14 | 0.8 | 0.26 | 0.84 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 14 | 0.8 | 0.26 | 0.84 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 14 | 0.73 | 0.17 | 0.79 |
| (2,4115) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 14 | 0.73 | 0.17 | 0.79 |
| (2,4115) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 14 | 0.73 | 0.17 | 0.79 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 14 | 0.7 | 0.16 | 0.74 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 14 | 0.7 | 0.16 | 0.74 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD23 | 14 | 0.7 | 0.16 | 0.74 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 14 | 0.67 | 0.26 | 0.68 |
| (2,4023) | 1:12:A:ILE:HD13 | 1:10:A:ARG:HD3 | 14 | 0.6 | 0.21 | 0.55 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 14 | 0.6 | 0.21 | 0.55 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD2 | 14 | 0.6 | 0.21 | 0.55 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD3 | 14 | 0.6 | 0.21 | 0.55 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD2 | 14 | 0.6 | 0.21 | 0.55 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 14 | 0.56 | 0.2 | 0.5 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 14 | 0.56 | 0.2 | 0.5 |
| (2,2312) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HZ | 14 | 0.56 | 0.2 | 0.5 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 14 | 0.51 | 0.29 | 0.7 |
| (2,1312) | 1:149:A:ILE:HG22 | 1:151:A:ASP:H | 14 | 0.45 | 0.23 | 0.34 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 14 | 0.45 | 0.23 | 0.34 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 14 | 0.45 | 0.23 | 0.34 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 14 | 0.42 | 0.1 | 0.46 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 14 | 0.42 | 0.09 | 0.44 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 14 | 0.39 | 0.04 | 0.39 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 14 | 0.39 | 0.04 | 0.39 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD13 | 14 | 0.39 | 0.04 | 0.39 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 14 | 0.39 | 0.37 | 0.24 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 14 | 0.39 | 0.37 | 0.24 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD22 | 14 | 0.39 | 0.37 | 0.24 |
| (2,4611) | 1:80:A:GLU:H | 1:81:A:LEU:HD13 | 14 | 0.39 | 0.37 | 0.24 |
| (2,4611) | 1:80:A:GLU:H | 1:81:A:LEU:HD12 | 14 | 0.39 | 0.37 | 0.24 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 14 | 0.36 | 0.19 | 0.32 |
| (2,2131) | 1:29:A:LEU:HD22 | 1:136:A:GLN:HE21 | 14 | 0.36 | 0.19 | 0.32 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 14 | 0.36 | 0.19 | 0.32 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 14 | 0.36 | 0.12 | 0.37 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 14 | 0.35 | 0.09 | 0.36 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 14 | 0.35 | 0.18 | 0.31 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG21 | 14 | 0.35 | 0.18 | 0.31 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG22 | 14 | 0.35 | 0.18 | 0.31 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 14 | 0.34 | 0.1 | 0.32 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 14 | 0.34 | 0.1 | 0.32 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE3 | 14 | 0.34 | 0.1 | 0.32 |
| (2,2338) | 1:29:A:LEU:HD22 | 1:130:A:ALA:H | 14 | 0.34 | 0.13 | 0.32 |
| (2,2338) | 1:29:A:LEU:HD21 | 1:130:A:ALA:H | 14 | 0.34 | 0.13 | 0.32 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 14 | 0.34 | 0.13 | 0.32 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 14 | 0.33 | 0.11 | 0.3 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 14 | 0.33 | 0.11 | 0.3 |
| (2,1370) | 1:21:A:ALA:HB2 | 1:20:A:ASP:H | 14 | 0.33 | 0.11 | 0.3 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 14 | 0.32 | 0.22 | 0.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4945) | 1:77:A:LEU:HD21 | 1:142:A:HIS:H | 14 | 0.32 | 0.22 | 0.23 |
| (2,4945) | 1:77:A:LEU:HD23 | 1:142:A:HIS:H | 14 | 0.32 | 0.22 | 0.23 |
| (2,4945) | 1:142:A:HIS:H | 1:81:A:LEU:HD21 | 14 | 0.32 | 0.22 | 0.23 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 14 | 0.29 | 0.16 | 0.21 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 14 | 0.28 | 0.13 | 0.24 |
| (2,4103) | 1:51:A:ILE:HG23 | 1:60:A:PHE:HE2 | 14 | 0.27 | 0.14 | 0.26 |
| (2,4103) | 1:51:A:ILE:HG21 | 1:60:A:PHE:HE2 | 14 | 0.27 | 0.14 | 0.26 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 14 | 0.27 | 0.14 | 0.26 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4454) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG21 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG23 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG22 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4454) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 14 | 0.26 | 0.09 | 0.26 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 14 | 0.26 | 0.1 | 0.29 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 14 | 0.26 | 0.1 | 0.29 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD2 | 14 | 0.25 | 0.05 | 0.26 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 14 | 0.25 | 0.05 | 0.26 |
| (2,1671) | 1:31:A:ILE:HG23 | 1:127:A:ASN:HD21 | 14 | 0.25 | 0.08 | 0.22 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 14 | 0.25 | 0.08 | 0.22 |
| (2,1671) | 1:31:A:ILE:HG21 | 1:127:A:ASN:HD21 | 14 | 0.25 | 0.08 | 0.22 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 14 | 0.22 | 0.04 | 0.22 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 14 | 0.2 | 0.05 | 0.2 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD11 | 14 | 0.2 | 0.05 | 0.2 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD13 | 14 | 0.2 | 0.05 | 0.2 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 14 | 0.19 | 0.05 | 0.19 |
| (2,673) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 14 | 0.19 | 0.05 | 0.19 |
| (2,673) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 14 | 0.19 | 0.05 | 0.19 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 14 | 0.19 | 0.04 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 14 | 0.18 | 0.05 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HD3 | 14 | 0.18 | 0.05 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 14 | 0.18 | 0.05 | 0.18 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 14 | 0.15 | 0.03 | 0.15 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 14 | 0.12 | 0.01 | 0.12 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG22 | 14 | 0.11 | 0.01 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 14 | 0.11 | 0.01 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 14 | 0.11 | 0.01 | 0.1 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 13 | 1.27 | 1.0 | 1.35 |
| (2,4190) | 1:77:A:LEU:HD22 | 1:80:A:GLU:HB2 | 13 | 1.27 | 1.0 | 1.35 |
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 13 | 1.27 | 1.0 | 1.35 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HG2 | 13 | 1.27 | 1.0 | 1.35 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:139:A:ARG:HG2 | 13 | 0.84 | 0.44 | 1.06 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 13 | 0.84 | 0.44 | 1.06 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE2 | 13 | 0.84 | 0.44 | 1.06 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 13 | 0.72 | 0.34 | 0.65 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 13 | 0.55 | 0.2 | 0.66 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD22 | 13 | 0.54 | 0.14 | 0.56 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD23 | 13 | 0.54 | 0.14 | 0.56 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 13 | 0.54 | 0.14 | 0.56 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 13 | 0.49 | 0.3 | 0.58 |
| (2,4244) | 1:35:A:ASN:HB3 | 1:34:A:SER:HB2 | 13 | 0.49 | 0.3 | 0.58 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:82:A:GLU:HG3 | 13 | 0.45 | 0.27 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:84:A:GLU:HB2 | 13 | 0.45 | 0.27 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:82:A:GLU:HG3 | 13 | 0.45 | 0.27 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:84:A:GLU:HB2 | 13 | 0.45 | 0.27 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG22 | 1:82:A:GLU:HG3 | 13 | 0.45 | 0.27 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG22 | 1:84:A:GLU:HB2 | 13 | 0.45 | 0.27 | 0.37 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 13 | 0.34 | 0.11 | 0.38 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 13 | 0.34 | 0.11 | 0.38 |
| (2,1612) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB3 | 13 | 0.34 | 0.11 | 0.38 |
| (2,3958) | 1:109:A:ILE:HD13 | 1:107:A:ASP:H | 13 | 0.31 | 0.15 | 0.3 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:108:A:GLY:H | 13 | 0.31 | 0.15 | 0.3 |
| (2,3958) | 1:109:A:ILE:HD11 | 1:107:A:ASP:H | 13 | 0.31 | 0.15 | 0.3 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:107:A:ASP:H | 13 | 0.31 | 0.15 | 0.3 |
| (2,3702) | 1:92:A:LEU:HD22 | 1:75:A:GLU:HG2 | 13 | 0.28 | 0.11 | 0.24 |
| (2,3702) | 1:92:A:LEU:HD21 | 1:75:A:GLU:HG2 | 13 | 0.28 | 0.11 | 0.24 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 13 | 0.28 | 0.11 | 0.24 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 13 | 0.27 | 0.06 | 0.28 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE1 | 13 | 0.27 | 0.12 | 0.25 |
| (2,3959) | 1:109:A:ILE:HD11 | 1:110:A:PHE:HE1 | 13 | 0.27 | 0.12 | 0.25 |
| (2,3959) | 1:109:A:ILE:HD12 | 1:110:A:PHE:HE1 | 13 | 0.27 | 0.12 | 0.25 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE2 | 13 | 0.27 | 0.12 | 0.25 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 13 | 0.23 | 0.05 | 0.22 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 13 | 0.23 | 0.07 | 0.26 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 13 | 0.23 | 0.07 | 0.26 |
| (2,3560) | 1:122:A:LEU:HD12 | 1:121:A:GLY:H | 13 | 0.23 | 0.07 | 0.26 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 13 | 0.21 | 0.06 | 0.21 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD2 | 13 | 0.21 | 0.06 | 0.21 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 13 | 0.21 | 0.11 | 0.19 |
| (2,4174) | 1:63:A:LYS:HD2 | 1:55:A:THR:H | 13 | 0.21 | 0.11 | 0.19 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 13 | 0.21 | 0.08 | 0.19 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 13 | 0.21 | 0.08 | 0.19 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD13 | 13 | 0.21 | 0.08 | 0.19 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 13 | 0.2 | 0.07 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 13 | 0.2 | 0.07 | 0.18 |
| (2,2996) | 1:6:A:ALA:HB1 | 1:6:A:ALA:H | 13 | 0.2 | 0.08 | 0.2 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 13 | 0.2 | 0.08 | 0.2 |
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 13 | 0.2 | 0.08 | 0.2 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 13 | 0.2 | 0.04 | 0.19 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 13 | 0.19 | 0.05 | 0.18 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG3 | 13 | 0.19 | 0.05 | 0.18 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG23 | 13 | 0.19 | 0.06 | 0.19 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 13 | 0.19 | 0.06 | 0.19 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG21 | 13 | 0.19 | 0.06 | 0.19 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 13 | 0.18 | 0.06 | 0.13 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 13 | 0.18 | 0.11 | 0.15 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB3 | 13 | 0.18 | 0.11 | 0.15 |
| (2,1511) | 1:59:A:ILE:HG23 | 1:57:A:LEU:HG | 13 | 0.17 | 0.06 | 0.16 |
| (2,1511) | 1:59:A:ILE:HG22 | 1:57:A:LEU:HG | 13 | 0.17 | 0.06 | 0.16 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 13 | 0.17 | 0.06 | 0.16 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 13 | 0.16 | 0.03 | 0.16 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 13 | 0.16 | 0.03 | 0.16 |
| (2,4682) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 13 | 0.16 | 0.03 | 0.16 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 13 | 0.16 | 0.05 | 0.13 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 13 | 0.15 | 0.04 | 0.14 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 13 | 0.15 | 0.03 | 0.16 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 13 | 0.13 | 0.03 | 0.15 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG21 | 13 | 0.12 | 0.01 | 0.12 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG23 | 13 | 0.12 | 0.01 | 0.12 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 13 | 0.12 | 0.01 | 0.12 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 13 | 0.11 | 0.01 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 13 | 0.11 | 0.01 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 13 | 0.11 | 0.01 | 0.11 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 12 | 1.93 | 0.51 | 2.04 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 12 | 1.26 | 0.01 | 1.26 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 12 | 0.98 | 0.26 | 1.04 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 12 | 0.81 | 0.37 | 0.84 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 12 | 0.74 | 0.13 | 0.7 |
| (2,4119) | 1:5:A:VAL:HG21 | 1:4:A:THR:HB | 12 | 0.74 | 0.13 | 0.7 |
| (2,4119) | 1:5:A:VAL:HG23 | 1:4:A:THR:HB | 12 | 0.74 | 0.13 | 0.7 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 12 | 0.66 | 0.64 | 0.32 |
| (2,1965) | 1:149:A:ILE:HD13 | 1:150:A:ILE:HA | 12 | 0.46 | 0.24 | 0.52 |
| (2,1965) | 1:149:A:ILE:HD12 | 1:150:A:ILE:HA | 12 | 0.46 | 0.24 | 0.52 |
| (2,1965) | 1:149:A:ILE:HD11 | 1:150:A:ILE:HA | 12 | 0.46 | 0.24 | 0.52 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 12 | 0.38 | 0.09 | 0.36 |
| (2,3869) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD21 | 12 | 0.38 | 0.09 | 0.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4141) | 1:64:A:GLU:HG3 | 1:55:A:THR:H | 12 | 0.37 | 0.09 | 0.36 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 12 | 0.37 | 0.09 | 0.36 |
| (2,3963) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 12 | 0.34 | 0.18 | 0.34 |
| (2,3963) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 12 | 0.34 | 0.18 | 0.34 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 12 | 0.34 | 0.18 | 0.34 |
| (2,3963) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB2 | 12 | 0.34 | 0.18 | 0.34 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB2 | 12 | 0.34 | 0.18 | 0.34 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 12 | 0.34 | 0.17 | 0.25 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG23 | 12 | 0.34 | 0.17 | 0.25 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG22 | 12 | 0.34 | 0.17 | 0.25 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 12 | 0.32 | 0.13 | 0.38 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD2 | 12 | 0.32 | 0.13 | 0.38 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 12 | 0.31 | 0.07 | 0.33 |
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 12 | 0.31 | 0.07 | 0.33 |
| (2,525) | 1:122:A:LEU:HD12 | 1:122:A:LEU:H | 12 | 0.31 | 0.07 | 0.33 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 12 | 0.3 | 0.25 | 0.2 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG21 | 12 | 0.3 | 0.25 | 0.2 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG22 | 12 | 0.3 | 0.25 | 0.2 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 12 | 0.28 | 0.11 | 0.26 |
| (2,1500) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD2 | 12 | 0.27 | 0.06 | 0.28 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 12 | 0.27 | 0.06 | 0.28 |
| (2,1500) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD2 | 12 | 0.27 | 0.06 | 0.28 |
| (2,4473) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HB2 | 12 | 0.26 | 0.15 | 0.2 |
| (2,4473) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HB2 | 12 | 0.26 | 0.15 | 0.2 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB2 | 12 | 0.26 | 0.15 | 0.2 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB3 | 12 | 0.26 | 0.15 | 0.2 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 12 | 0.26 | 0.21 | 0.2 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD2 | 12 | 0.26 | 0.21 | 0.2 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 12 | 0.26 | 0.04 | 0.28 |
| (2,3630) | 1:3:A:GLU:HA | 1:3:A:GLU:HG3 | 12 | 0.26 | 0.04 | 0.28 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 12 | 0.24 | 0.01 | 0.24 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 12 | 0.24 | 0.1 | 0.19 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG22 | 12 | 0.24 | 0.1 | 0.19 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG21 | 12 | 0.24 | 0.1 | 0.19 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 12 | 0.23 | 0.04 | 0.26 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 12 | 0.22 | 0.06 | 0.2 |
| (2,455) | 1:48:A:THR:HG23 | 1:49:A:TYR:H | 12 | 0.22 | 0.06 | 0.2 |
| (2,455) | 1:48:A:THR:HG22 | 1:49:A:TYR:H | 12 | 0.22 | 0.06 | 0.2 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 12 | 0.19 | 0.07 | 0.18 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG23 | 12 | 0.19 | 0.07 | 0.18 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG22 | 12 | 0.19 | 0.07 | 0.18 |
| (2,4058) | 1:29:A:LEU:HD12 | 1:31:A:ILE:HA | 12 | 0.18 | 0.04 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 12 | 0.18 | 0.04 | 0.15 |
| (2,4058) | 1:29:A:LEU:HD13 | 1:31:A:ILE:HA | 12 | 0.18 | 0.04 | 0.15 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 12 | 0.18 | 0.04 | 0.17 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 12 | 0.16 | 0.05 | 0.15 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 12 | 0.11 | 0.01 | 0.11 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 11 | 1.6 | 0.22 | 1.69 |
| (2,4562) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 11 | 1.6 | 0.22 | 1.69 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 11 | 1.15 | 0.43 | 1.28 |
| (2,4345) | 1:145:A:LEU:HD13 | 1:141:A:LEU:HB3 | 11 | 1.15 | 0.43 | 1.28 |
| (2,4345) | 1:145:A:LEU:HD12 | 1:141:A:LEU:HB3 | 11 | 1.15 | 0.43 | 1.28 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:146:A:GLN:HG2 | 11 | 1.15 | 0.43 | 1.28 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD13 | 11 | 1.15 | 0.25 | 1.2 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD11 | 11 | 1.15 | 0.25 | 1.2 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD12 | 11 | 1.15 | 0.25 | 1.2 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 11 | 1.09 | 0.08 | 1.08 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 11 | 0.93 | 0.06 | 0.9 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 11 | 0.82 | 0.2 | 0.86 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 11 | 0.81 | 0.02 | 0.8 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 11 | 0.75 | 0.21 | 0.82 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 11 | 0.75 | 0.21 | 0.82 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 11 | 0.71 | 0.02 | 0.71 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 11 | 0.69 | 0.13 | 0.68 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG22 | 11 | 0.69 | 0.13 | 0.68 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG21 | 11 | 0.69 | 0.13 | 0.68 |
| (2,4398) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HD2 | 11 | 0.62 | 0.83 | 0.36 |
| (2,4398) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HD2 | 11 | 0.62 | 0.83 | 0.36 |
| (2,4398) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HD3 | 11 | 0.62 | 0.83 | 0.36 |
| (2,4398) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HD2 | 11 | 0.62 | 0.83 | 0.36 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 11 | 0.54 | 0.05 | 0.54 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD23 | 11 | 0.54 | 0.05 | 0.54 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD1 | 11 | 0.53 | 0.19 | 0.53 |
| (2,4347) | 1:38:A:THR:HG21 | 1:110:A:PHE:HZ | 11 | 0.53 | 0.19 | 0.53 |
| (2,4347) | 1:38:A:THR:HG23 | 1:110:A:PHE:HZ | 11 | 0.53 | 0.19 | 0.53 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD2 | 11 | 0.53 | 0.19 | 0.53 |
| (2,4347) | 1:38:A:THR:HG22 | 1:110:A:PHE:HZ | 11 | 0.53 | 0.19 | 0.53 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG22 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4973) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HD21 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4973) | 1:59:A:ILE:HD11 | 1:137:A:ASN:HD21 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG23 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4973) | 1:59:A:ILE:HD13 | 1:137:A:ASN:HD21 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG21 | 11 | 0.46 | 0.39 | 0.25 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 11 | 0.45 | 0.2 | 0.44 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4852) | 1:97:A:PHE:HB2 | 1:96:A:ALA:H | 11 | 0.45 | 0.2 | 0.44 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 11 | 0.44 | 0.13 | 0.35 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 11 | 0.38 | 0.15 | 0.42 |
| (2,3930) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 11 | 0.38 | 0.15 | 0.42 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 11 | 0.38 | 0.15 | 0.38 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG22 | 11 | 0.38 | 0.15 | 0.38 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG23 | 11 | 0.38 | 0.15 | 0.38 |
| (2,3691) | 1:150:A:ILE:HD13 | 1:143:A:MET:HB2 | 11 | 0.34 | 0.16 | 0.36 |
| (2,3691) | 1:150:A:ILE:HD11 | 1:143:A:MET:HB2 | 11 | 0.34 | 0.16 | 0.36 |
| (2,3691) | 1:150:A:ILE:HD12 | 1:143:A:MET:HB2 | 11 | 0.34 | 0.16 | 0.36 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 11 | 0.34 | 0.09 | 0.39 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG23 | 11 | 0.34 | 0.09 | 0.39 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG21 | 11 | 0.34 | 0.09 | 0.39 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 11 | 0.33 | 0.08 | 0.3 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD3 | 11 | 0.33 | 0.08 | 0.3 |
| (2,4094) | 1:115:A:ILE:HG21 | 1:119:A:LYS:H | 11 | 0.31 | 0.11 | 0.31 |
| (2,4094) | 1:115:A:ILE:HG23 | 1:119:A:LYS:H | 11 | 0.31 | 0.11 | 0.31 |
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 11 | 0.31 | 0.11 | 0.31 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 11 | 0.31 | 0.11 | 0.34 |
| (2,3759) | 1:53:A:VAL:HG22 | 1:30:A:GLU:H | 11 | 0.28 | 0.1 | 0.28 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 11 | 0.28 | 0.1 | 0.28 |
| (2,3759) | 1:53:A:VAL:HG22 | 1:55:A:THR:H | 11 | 0.28 | 0.1 | 0.28 |
| (2,3759) | 1:53:A:VAL:HG23 | 1:30:A:GLU:H | 11 | 0.28 | 0.1 | 0.28 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 11 | 0.27 | 0.08 | 0.28 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 11 | 0.27 | 0.08 | 0.28 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG11 | 11 | 0.27 | 0.08 | 0.28 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 11 | 0.27 | 0.07 | 0.27 |
| (2,1072) | 1:159:A:ILE:HD13 | 1:139:A:ARG:HD2 | 11 | 0.27 | 0.07 | 0.27 |
| (2,1072) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HD2 | 11 | 0.27 | 0.07 | 0.27 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 11 | 0.27 | 0.04 | 0.27 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 11 | 0.25 | 0.1 | 0.27 |
| (2,4741) | 1:5:A:VAL:HG12 | 1:5:A:VAL:H | 11 | 0.24 | 0.07 | 0.27 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 11 | 0.24 | 0.07 | 0.27 |
| (2,4741) | 1:5:A:VAL:HG23 | 1:5:A:VAL:H | 11 | 0.24 | 0.07 | 0.27 |
| (2,4741) | 1:5:A:VAL:HG21 | 1:5:A:VAL:H | 11 | 0.24 | 0.07 | 0.27 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 11 | 0.24 | 0.03 | 0.24 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 11 | 0.21 | 0.08 | 0.22 |
| (2,1583) | 1:141:A:LEU:HD13 | 1:138:A:GLU:H | 11 | 0.21 | 0.08 | 0.22 |
| (2,1583) | 1:141:A:LEU:HD11 | 1:138:A:GLU:H | 11 | 0.21 | 0.08 | 0.22 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 11 | 0.2 | 0.06 | 0.19 |
| (2,4098) | 1:59:A:ILE:HG23 | 1:60:A:PHE:HB3 | 11 | 0.19 | 0.07 | 0.2 |
| (2,4098) | 1:59:A:ILE:HG22 | 1:60:A:PHE:HB3 | 11 | 0.19 | 0.07 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 11 | 0.19 | 0.07 | 0.2 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 11 | 0.19 | 0.02 | 0.2 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 11 | 0.19 | 0.14 | 0.16 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 11 | 0.19 | 0.04 | 0.19 |
| (2,372) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HB2 | 11 | 0.19 | 0.04 | 0.19 |
| (2,372) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HB2 | 11 | 0.19 | 0.04 | 0.19 |
| (2,598) | 1:129:A:VAL:HG11 | 1:125:A:PHE:HD1 | 11 | 0.19 | 0.08 | 0.16 |
| (2,598) | 1:129:A:VAL:HG12 | 1:125:A:PHE:HD1 | 11 | 0.19 | 0.08 | 0.16 |
| (2,598) | 1:129:A:VAL:HG13 | 1:125:A:PHE:HD1 | 11 | 0.19 | 0.08 | 0.16 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 11 | 0.17 | 0.05 | 0.17 |
| (2,241) | 1:150:A:ILE:HG23 | 1:151:A:ASP:H | 11 | 0.17 | 0.05 | 0.17 |
| (2,241) | 1:150:A:ILE:HG21 | 1:151:A:ASP:H | 11 | 0.17 | 0.05 | 0.17 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 11 | 0.16 | 0.03 | 0.15 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 11 | 0.16 | 0.0 | 0.16 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 11 | 0.14 | 0.02 | 0.14 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 11 | 0.12 | 0.01 | 0.12 |
| (2,513) | 1:122:A:LEU:HD12 | 1:122:A:LEU:HB3 | 11 | 0.11 | 0.01 | 0.11 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 11 | 0.11 | 0.01 | 0.11 |
| (2,513) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB3 | 11 | 0.11 | 0.01 | 0.11 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD13 | 10 | 1.39 | 0.62 | 1.68 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD11 | 10 | 1.39 | 0.62 | 1.68 |
| (2,4340) | 1:144:A:PHE:HA | 1:145:A:LEU:HD13 | 10 | 1.39 | 0.62 | 1.68 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD12 | 10 | 1.39 | 0.62 | 1.68 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG12 | 10 | 0.77 | 0.16 | 0.74 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG13 | 10 | 0.77 | 0.16 | 0.74 |
| (2,3754) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 10 | 0.77 | 0.16 | 0.74 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG11 | 10 | 0.77 | 0.16 | 0.74 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 10 | 0.72 | 0.35 | 0.94 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD11 | 10 | 0.72 | 0.35 | 0.94 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD12 | 10 | 0.72 | 0.35 | 0.94 |
| (2,224) | 1:155:A:THR:HG22 | 1:139:A:ARG:HG2 | 10 | 0.69 | 0.22 | 0.71 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 10 | 0.69 | 0.22 | 0.71 |
| (2,224) | 1:155:A:THR:HG23 | 1:139:A:ARG:HG2 | 10 | 0.69 | 0.22 | 0.71 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 10 | 0.68 | 0.09 | 0.7 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 10 | 0.68 | 0.09 | 0.7 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG21 | 10 | 0.56 | 0.09 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG13 | 10 | 0.56 | 0.09 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG23 | 10 | 0.56 | 0.09 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG12 | 10 | 0.56 | 0.09 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG22 | 10 | 0.56 | 0.09 | 0.6 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD12 | 10 | 0.48 | 0.15 | 0.5 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD11 | 10 | 0.48 | 0.15 | 0.5 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD13 | 10 | 0.48 | 0.15 | 0.5 |
| (2,4890) | 1:143:A:MET:H | 1:145:A:LEU:HD23 | 10 | 0.48 | 0.15 | 0.5 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 10 | 0.4 | 0.13 | 0.44 |
| (2,3616) | 1:32:A:ASP:HB3 | 1:52:A:ARG:HG3 | 10 | 0.4 | 0.13 | 0.44 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 10 | 0.39 | 0.09 | 0.44 |
| (2,3847) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HB2 | 10 | 0.38 | 0.31 | 0.32 |
| (2,3847) | 1:159:A:ILE:HG23 | 1:136:A:GLN:HB2 | 10 | 0.38 | 0.31 | 0.32 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 10 | 0.38 | 0.31 | 0.32 |
| (2,2017) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HB2 | 10 | 0.32 | 0.09 | 0.34 |
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 10 | 0.32 | 0.09 | 0.34 |
| (2,2017) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HB2 | 10 | 0.32 | 0.09 | 0.34 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 10 | 0.32 | 0.1 | 0.37 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 10 | 0.3 | 0.1 | 0.28 |
| (2,1915) | 1:134:A:LEU:HD21 | 1:86:A:LYS:HB3 | 10 | 0.29 | 0.14 | 0.3 |
| (2,1915) | 1:134:A:LEU:HD23 | 1:86:A:LYS:HB3 | 10 | 0.29 | 0.14 | 0.3 |
| (2,1915) | 1:134:A:LEU:HD22 | 1:86:A:LYS:HB3 | 10 | 0.29 | 0.14 | 0.3 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 10 | 0.28 | 0.07 | 0.32 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 10 | 0.25 | 0.11 | 0.24 |
| (2,291) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HD3 | 10 | 0.25 | 0.11 | 0.24 |
| (2,291) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HD3 | 10 | 0.25 | 0.11 | 0.24 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 10 | 0.23 | 0.08 | 0.21 |
| (2,1326) | 1:12:A:ILE:HG21 | 1:13:A:THR:HA | 10 | 0.22 | 0.06 | 0.21 |
| (2,1326) | 1:12:A:ILE:HG23 | 1:13:A:THR:HA | 10 | 0.22 | 0.06 | 0.21 |
| (2,1326) | 1:12:A:ILE:HG22 | 1:13:A:THR:HA | 10 | 0.22 | 0.06 | 0.21 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 10 | 0.21 | 0.02 | 0.21 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 10 | 0.21 | 0.07 | 0.23 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 10 | 0.21 | 0.07 | 0.23 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 10 | 0.21 | 0.04 | 0.21 |
| (2,3740) | 1:87:A:VAL:HG23 | 1:86:A:LYS:H | 10 | 0.21 | 0.04 | 0.21 |
| (2,3740) | 1:87:A:VAL:HG21 | 1:86:A:LYS:H | 10 | 0.21 | 0.04 | 0.21 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 10 | 0.21 | 0.08 | 0.2 |
| (2,3783) | 1:143:A:MET:HE3 | 1:143:A:MET:HB3 | 10 | 0.21 | 0.08 | 0.2 |
| (2,3783) | 1:143:A:MET:HE1 | 1:143:A:MET:HB3 | 10 | 0.21 | 0.08 | 0.2 |
| (2,3783) | 1:143:A:MET:HE3 | 1:143:A:MET:HB2 | 10 | 0.21 | 0.08 | 0.2 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB2 | 10 | 0.21 | 0.08 | 0.2 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 10 | 0.2 | 0.03 | 0.2 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 10 | 0.2 | 0.07 | 0.18 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 10 | 0.18 | 0.06 | 0.17 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 10 | 0.18 | 0.06 | 0.17 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG11 | 10 | 0.18 | 0.06 | 0.17 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 10 | 0.17 | 0.01 | 0.17 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG21 | 10 | 0.15 | 0.03 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG23 | 10 | 0.15 | 0.03 | 0.14 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG22 | 10 | 0.15 | 0.03 | 0.14 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 10 | 0.14 | 0.01 | 0.14 |
| (2,4681) | 1:141:A:LEU:HD21 | 1:137:A:ASN:H | 10 | 0.14 | 0.02 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD23 | 1:137:A:ASN:H | 10 | 0.14 | 0.02 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD22 | 1:137:A:ASN:H | 10 | 0.14 | 0.02 | 0.13 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 10 | 0.13 | 0.02 | 0.13 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 10 | 0.12 | 0.02 | 0.12 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG22 | 10 | 0.11 | 0.01 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG21 | 10 | 0.11 | 0.01 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG23 | 10 | 0.11 | 0.01 | 0.11 |
| (2,4127) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4127) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4127) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4127) | 1:149:A:ILE:HD12 | 1:149:A:ILE:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG13 | 1:5:A:VAL:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG22 | 1:5:A:VAL:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG12 | 1:5:A:VAL:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG21 | 1:5:A:VAL:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG11 | 1:5:A:VAL:HB | 10 | 0.11 | 0.01 | 0.11 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 9 | 1.77 | 0.09 | 1.78 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD21 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD22 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD12 | 1:145:A:LEU:HD23 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD23 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD12 | 1:145:A:LEU:HD21 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD22 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD21 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD23 | 9 | 1.44 | 0.44 | 1.21 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 9 | 1.31 | 0.55 | 1.33 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 9 | 1.18 | 0.08 | 1.19 |
| (2,4984) | 1:147:A:ASP:H | 1:143:A:MET:HB2 | 9 | 1.18 | 0.08 | 1.19 |
| (2,4365) | 1:145:A:LEU:HD23 | 1:146:A:GLN:HG3 | 9 | 1.12 | 0.51 | 1.33 |
| (2,4365) | 1:145:A:LEU:HD21 | 1:146:A:GLN:HG3 | 9 | 1.12 | 0.51 | 1.33 |
| (2,4365) | 1:145:A:LEU:HD22 | 1:146:A:GLN:HG3 | 9 | 1.12 | 0.51 | 1.33 |
| (2,1953) | 1:145:A:LEU:HD21 | 1:141:A:LEU:HB3 | 9 | 0.8 | 0.62 | 0.53 |
| (2,1953) | 1:145:A:LEU:HD22 | 1:141:A:LEU:HB3 | 9 | 0.8 | 0.62 | 0.53 |
| (2,1953) | 1:145:A:LEU:HD23 | 1:141:A:LEU:HB3 | 9 | 0.8 | 0.62 | 0.53 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 9 | 0.73 | 0.12 | 0.68 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD22 | 9 | 0.72 | 0.31 | 0.54 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD23 | 9 | 0.72 | 0.31 | 0.54 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD21 | 9 | 0.72 | 0.31 | 0.54 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 9 | 0.69 | 0.42 | 1.0 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 9 | 0.5 | 0.08 | 0.49 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 9 | 0.48 | 0.43 | 0.12 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 9 | 0.47 | 0.2 | 0.46 |
| (2,4423) | 1:33:A:VAL:HG22 | 1:122:A:LEU:HG | 9 | 0.47 | 0.2 | 0.46 |
| (2,4423) | 1:122:A:LEU:HG | 1:33:A:VAL:HG11 | 9 | 0.47 | 0.2 | 0.46 |
| (2,4423) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HG3 | 9 | 0.47 | 0.2 | 0.46 |
| (2,4423) | 1:33:A:VAL:HG23 | 1:122:A:LEU:HG | 9 | 0.47 | 0.2 | 0.46 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 9 | 0.45 | 0.1 | 0.45 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 9 | 0.44 | 0.1 | 0.46 |
| (2,3990) | 1:26:A:SER:HB3 | 1:25:A:PRO:HB2 | 9 | 0.44 | 0.1 | 0.46 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 9 | 0.42 | 0.19 | 0.47 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG23 | 9 | 0.38 | 0.19 | 0.35 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG21 | 9 | 0.38 | 0.19 | 0.35 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG22 | 9 | 0.38 | 0.19 | 0.35 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 9 | 0.38 | 0.17 | 0.4 |
| (2,2005) | 1:51:A:ILE:HD13 | 1:69:A:ARG:HA | 9 | 0.38 | 0.17 | 0.4 |
| (2,2005) | 1:51:A:ILE:HD12 | 1:69:A:ARG:HA | 9 | 0.38 | 0.17 | 0.4 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB3 | 9 | 0.34 | 0.09 | 0.31 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB3 | 9 | 0.34 | 0.09 | 0.31 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB2 | 9 | 0.34 | 0.09 | 0.31 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB2 | 9 | 0.34 | 0.09 | 0.31 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 9 | 0.32 | 0.01 | 0.32 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 9 | 0.31 | 0.14 | 0.24 |
| (2,454) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 9 | 0.28 | 0.1 | 0.29 |
| (2,454) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD12 | 9 | 0.28 | 0.1 | 0.29 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD13 | 9 | 0.28 | 0.1 | 0.29 |
| (2,454) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD12 | 9 | 0.28 | 0.1 | 0.29 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD12 | 9 | 0.28 | 0.1 | 0.29 |
| (2,454) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD11 | 9 | 0.28 | 0.1 | 0.29 |
| (2,4265) | 1:68:A:ARG:HD2 | 1:68:A:ARG:H | 9 | 0.28 | 0.1 | 0.28 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 9 | 0.28 | 0.1 | 0.28 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 9 | 0.28 | 0.12 | 0.22 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 9 | 0.26 | 0.07 | 0.25 |
| (2,4534) | 1:149:A:ILE:HG22 | 1:150:A:ILE:HG13 | 9 | 0.26 | 0.07 | 0.26 |
| (2,4534) | 1:149:A:ILE:HG23 | 1:150:A:ILE:HG13 | 9 | 0.26 | 0.07 | 0.26 |
| (2,4534) | 1:149:A:ILE:HG21 | 1:150:A:ILE:HG13 | 9 | 0.26 | 0.07 | 0.26 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 9 | 0.26 | 0.07 | 0.27 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 9 | 0.24 | 0.08 | 0.24 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD13 | 9 | 0.24 | 0.08 | 0.24 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD11 | 9 | 0.24 | 0.08 | 0.24 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 9 | 0.23 | 0.07 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2373) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HE1 | 9 | 0.23 | 0.07 | 0.2 |
| (2,2373) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HE1 | 9 | 0.23 | 0.07 | 0.2 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE2 | 9 | 0.23 | 0.06 | 0.22 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 9 | 0.23 | 0.06 | 0.22 |
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 9 | 0.22 | 0.04 | 0.23 |
| (2,1898) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HB2 | 9 | 0.22 | 0.04 | 0.23 |
| (2,1898) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HB2 | 9 | 0.22 | 0.04 | 0.23 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 9 | 0.22 | 0.03 | 0.22 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD22 | 9 | 0.22 | 0.03 | 0.22 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD21 | 9 | 0.22 | 0.03 | 0.22 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD12 | 9 | 0.22 | 0.04 | 0.21 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD13 | 9 | 0.22 | 0.04 | 0.21 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD11 | 9 | 0.22 | 0.04 | 0.21 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 9 | 0.2 | 0.06 | 0.19 |
| (2,4592) | 1:20:A:ASP:HB2 | 1:21:A:ALA:H | 9 | 0.2 | 0.06 | 0.19 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD12 | 9 | 0.19 | 0.07 | 0.22 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD13 | 9 | 0.19 | 0.07 | 0.22 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD11 | 9 | 0.19 | 0.07 | 0.22 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG12 | 9 | 0.19 | 0.12 | 0.14 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG13 | 9 | 0.19 | 0.12 | 0.14 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG11 | 9 | 0.19 | 0.12 | 0.14 |
| (2,357) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HZ | 9 | 0.19 | 0.07 | 0.15 |
| (2,357) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HZ | 9 | 0.19 | 0.07 | 0.15 |
| (2,357) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HZ | 9 | 0.19 | 0.07 | 0.15 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG23 | 9 | 0.18 | 0.06 | 0.17 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG22 | 9 | 0.18 | 0.06 | 0.17 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG21 | 9 | 0.18 | 0.06 | 0.17 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD2 | 9 | 0.18 | 0.06 | 0.15 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 9 | 0.18 | 0.06 | 0.15 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE3 | 9 | 0.18 | 0.03 | 0.19 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 9 | 0.18 | 0.03 | 0.19 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG21 | 9 | 0.17 | 0.04 | 0.17 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG22 | 9 | 0.17 | 0.04 | 0.17 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG23 | 9 | 0.17 | 0.04 | 0.17 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 9 | 0.16 | 0.03 | 0.16 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 9 | 0.13 | 0.0 | 0.13 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 9 | 0.12 | 0.01 | 0.12 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 9 | 0.12 | 0.02 | 0.11 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 9 | 0.11 | 0.01 | 0.12 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD2 | 8 | 0.67 | 0.16 | 0.62 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:52:A:ARG:HD2 | 8 | 0.67 | 0.16 | 0.62 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD3 | 8 | 0.67 | 0.16 | 0.62 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD13 | 8 | 0.66 | 0.53 | 0.46 |
| (2,4209) | 1:61:A:LYS:HE3 | 1:62:A:LEU:HD13 | 8 | 0.66 | 0.53 | 0.46 |
| (2,4209) | 1:61:A:LYS:HE3 | 1:62:A:LEU:HD11 | 8 | 0.66 | 0.53 | 0.46 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD12 | 8 | 0.66 | 0.53 | 0.46 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD11 | 8 | 0.66 | 0.53 | 0.46 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 8 | 0.65 | 0.29 | 0.62 |
| (2,4396) | 1:61:A:LYS:HD3 | 1:61:A:LYS:HA | 8 | 0.57 | 0.1 | 0.58 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 8 | 0.57 | 0.1 | 0.58 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG13 | 8 | 0.5 | 0.22 | 0.51 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG12 | 8 | 0.5 | 0.22 | 0.51 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG11 | 8 | 0.5 | 0.22 | 0.51 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD23 | 8 | 0.46 | 0.21 | 0.5 |
| (2,4350) | 1:130:A:ALA:HB2 | 1:145:A:LEU:HD22 | 8 | 0.46 | 0.21 | 0.5 |
| (2,4350) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD22 | 8 | 0.46 | 0.21 | 0.5 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD21 | 8 | 0.46 | 0.21 | 0.5 |
| (2,4350) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD22 | 8 | 0.46 | 0.21 | 0.5 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG22 | 8 | 0.46 | 0.27 | 0.42 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG12 | 8 | 0.46 | 0.27 | 0.42 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG22 | 8 | 0.46 | 0.27 | 0.42 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG11 | 8 | 0.46 | 0.27 | 0.42 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG23 | 8 | 0.46 | 0.27 | 0.42 |
| (2,4030) | 1:152:A:LYS:HD3 | 1:76:A:TRP:HD1 | 8 | 0.46 | 0.08 | 0.44 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 8 | 0.46 | 0.08 | 0.44 |
| (2,4118) | 1:5:A:VAL:HG12 | 1:4:A:THR:HA | 8 | 0.35 | 0.11 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG22 | 1:4:A:THR:HA | 8 | 0.35 | 0.11 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG21 | 1:4:A:THR:HA | 8 | 0.35 | 0.11 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG23 | 1:4:A:THR:HA | 8 | 0.35 | 0.11 | 0.29 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG12 | 8 | 0.34 | 0.2 | 0.3 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 8 | 0.34 | 0.2 | 0.3 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 8 | 0.34 | 0.13 | 0.33 |
| (2,4272) | 1:80:A:GLU:HA | 1:83:A:ARG:HD3 | 8 | 0.34 | 0.13 | 0.33 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 8 | 0.34 | 0.21 | 0.25 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 8 | 0.29 | 0.05 | 0.29 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 8 | 0.29 | 0.19 | 0.2 |
| (2,1371) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HD1 | 8 | 0.28 | 0.12 | 0.24 |
| (2,1371) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HD1 | 8 | 0.28 | 0.12 | 0.24 |
| (2,1371) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HD1 | 8 | 0.28 | 0.12 | 0.24 |
| (2,1371) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HD2 | 8 | 0.28 | 0.12 | 0.24 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 8 | 0.24 | 0.12 | 0.22 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD2 | 8 | 0.24 | 0.12 | 0.22 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 8 | 0.23 | 0.07 | 0.22 |
| (2,1756) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HB2 | 8 | 0.23 | 0.07 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1756) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HB2 | 8 | 0.23 | 0.07 | 0.22 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD2 | 8 | 0.23 | 0.12 | 0.18 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD1 | 8 | 0.23 | 0.12 | 0.18 |
| (2,541) | 1:143:A:MET:HE3 | 1:144:A:PHE:HD1 | 8 | 0.23 | 0.12 | 0.18 |
| (2,541) | 1:143:A:MET:HE3 | 1:144:A:PHE:HD2 | 8 | 0.23 | 0.12 | 0.18 |
| (2,541) | 1:143:A:MET:HE1 | 1:144:A:PHE:HD2 | 8 | 0.23 | 0.12 | 0.18 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 8 | 0.23 | 0.05 | 0.24 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 8 | 0.22 | 0.07 | 0.22 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 8 | 0.22 | 0.09 | 0.23 |
| (2,3523) | 1:162:A:ALA:HB1 | 1:162:A:ALA:H | 8 | 0.22 | 0.09 | 0.23 |
| (2,3523) | 1:162:A:ALA:HB3 | 1:162:A:ALA:H | 8 | 0.22 | 0.09 | 0.23 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 8 | 0.22 | 0.0 | 0.22 |
| (2,3690) | 1:150:A:ILE:HD13 | 1:143:A:MET:HG3 | 8 | 0.22 | 0.08 | 0.2 |
| (2,3690) | 1:150:A:ILE:HD11 | 1:143:A:MET:HG3 | 8 | 0.22 | 0.08 | 0.2 |
| (2,3690) | 1:150:A:ILE:HD12 | 1:143:A:MET:HG3 | 8 | 0.22 | 0.08 | 0.2 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 8 | 0.22 | 0.1 | 0.17 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 8 | 0.21 | 0.05 | 0.24 |
| (2,133) | 1:67:A:VAL:HG12 | 1:66:A:THR:H | 8 | 0.21 | 0.06 | 0.2 |
| (2,133) | 1:67:A:VAL:HG13 | 1:66:A:THR:H | 8 | 0.21 | 0.06 | 0.2 |
| (2,133) | 1:67:A:VAL:HG11 | 1:66:A:THR:H | 8 | 0.21 | 0.06 | 0.2 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG22 | 8 | 0.2 | 0.08 | 0.18 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG21 | 8 | 0.2 | 0.08 | 0.18 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG23 | 8 | 0.2 | 0.08 | 0.18 |
| (2,2149) | 1:33:A:VAL:HG13 | 1:32:A:ASP:H | 8 | 0.2 | 0.06 | 0.19 |
| (2,2149) | 1:33:A:VAL:HG12 | 1:32:A:ASP:H | 8 | 0.2 | 0.06 | 0.19 |
| (2,2149) | 1:33:A:VAL:HG11 | 1:32:A:ASP:H | 8 | 0.2 | 0.06 | 0.19 |
| (2,3253) | 1:55:A:THR:HG23 | 1:64:A:GLU:H | 8 | 0.2 | 0.05 | 0.19 |
| (2,3253) | 1:55:A:THR:HG21 | 1:64:A:GLU:H | 8 | 0.2 | 0.05 | 0.19 |
| (2,3253) | 1:55:A:THR:HG22 | 1:64:A:GLU:H | 8 | 0.2 | 0.05 | 0.19 |
| (2,362) | 1:89:A:VAL:HG22 | 1:87:A:VAL:H | 8 | 0.17 | 0.03 | 0.17 |
| (2,362) | 1:89:A:VAL:HG21 | 1:87:A:VAL:H | 8 | 0.17 | 0.03 | 0.17 |
| (2,362) | 1:89:A:VAL:HG23 | 1:87:A:VAL:H | 8 | 0.17 | 0.03 | 0.17 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 8 | 0.16 | 0.02 | 0.17 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG12 | 8 | 0.16 | 0.02 | 0.17 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG13 | 8 | 0.16 | 0.02 | 0.17 |
| (2,516) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HA | 8 | 0.16 | 0.05 | 0.14 |
| (2,516) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HA | 8 | 0.16 | 0.05 | 0.14 |
| (2,516) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HA | 8 | 0.16 | 0.05 | 0.14 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 8 | 0.16 | 0.03 | 0.16 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 8 | 0.16 | 0.02 | 0.16 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 8 | 0.15 | 0.02 | 0.16 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD11 | 8 | 0.15 | 0.02 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD13 | 8 | 0.15 | 0.02 | 0.16 |
| (2,3974) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB3 | 8 | 0.14 | 0.03 | 0.13 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 8 | 0.14 | 0.03 | 0.13 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 8 | 0.12 | 0.02 | 0.12 |
| (2,3770) | 1:126:A:ILE:HG23 | 1:123:A:GLU:H | 8 | 0.12 | 0.02 | 0.12 |
| (2,3770) | 1:126:A:ILE:HG22 | 1:123:A:GLU:H | 8 | 0.12 | 0.02 | 0.12 |
| (2,3770) | 1:126:A:ILE:HG21 | 1:123:A:GLU:H | 8 | 0.12 | 0.02 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 8 | 0.12 | 0.01 | 0.12 |
| (2,2270) | 1:145:A:LEU:HD12 | 1:144:A:PHE:HD1 | 7 | 1.15 | 0.43 | 1.36 |
| (2,2270) | 1:145:A:LEU:HD13 | 1:144:A:PHE:HD1 | 7 | 1.15 | 0.43 | 1.36 |
| (2,2270) | 1:145:A:LEU:HD11 | 1:144:A:PHE:HD2 | 7 | 1.15 | 0.43 | 1.36 |
| (2,2270) | 1:145:A:LEU:HD12 | 1:144:A:PHE:HD2 | 7 | 1.15 | 0.43 | 1.36 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG21 | 7 | 1.02 | 0.52 | 1.26 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG23 | 7 | 1.02 | 0.52 | 1.26 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG22 | 7 | 1.02 | 0.52 | 1.26 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG23 | 7 | 1.02 | 0.52 | 1.26 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG21 | 7 | 1.02 | 0.52 | 1.26 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 7 | 0.78 | 0.03 | 0.78 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE3 | 7 | 0.72 | 0.25 | 0.73 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 7 | 0.72 | 0.25 | 0.73 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG13 | 7 | 0.61 | 0.01 | 0.61 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG12 | 7 | 0.61 | 0.01 | 0.61 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG11 | 7 | 0.61 | 0.01 | 0.61 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 7 | 0.6 | 0.21 | 0.62 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 7 | 0.54 | 0.07 | 0.57 |
| (2,2258) | 1:130:A:ALA:HB2 | 1:136:A:GLN:HE22 | 7 | 0.53 | 0.13 | 0.49 |
| (2,2258) | 1:130:A:ALA:HB1 | 1:136:A:GLN:HE22 | 7 | 0.53 | 0.13 | 0.49 |
| (2,2258) | 1:130:A:ALA:HB3 | 1:136:A:GLN:HE22 | 7 | 0.53 | 0.13 | 0.49 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 7 | 0.52 | 0.62 | 0.15 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 7 | 0.47 | 0.01 | 0.47 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 7 | 0.4 | 0.24 | 0.3 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 7 | 0.31 | 0.04 | 0.33 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 7 | 0.3 | 0.13 | 0.25 |
| (2,2298) | 1:18:A:LEU:HD23 | 1:17:A:ASN:H | 7 | 0.29 | 0.1 | 0.26 |
| (2,2298) | 1:18:A:LEU:HD22 | 1:17:A:ASN:H | 7 | 0.29 | 0.1 | 0.26 |
| (2,2298) | 1:18:A:LEU:HD21 | 1:17:A:ASN:H | 7 | 0.29 | 0.1 | 0.26 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD3 | 7 | 0.28 | 0.08 | 0.28 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD2 | 7 | 0.28 | 0.08 | 0.28 |
| (2,3763) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 7 | 0.27 | 0.09 | 0.33 |
| (2,3763) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 7 | 0.27 | 0.09 | 0.33 |
| (2,3763) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 7 | 0.27 | 0.09 | 0.33 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 7 | 0.26 | 0.14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4498) | 1:137:A:ASN:HB2 | 1:136:A:GLN:HB3 | 7 | 0.26 | 0.14 | 0.2 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 7 | 0.24 | 0.08 | 0.28 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 7 | 0.24 | 0.12 | 0.17 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD1 | 7 | 0.23 | 0.05 | 0.23 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD2 | 7 | 0.23 | 0.05 | 0.23 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 7 | 0.23 | 0.12 | 0.18 |
| (2,4100) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB2 | 7 | 0.18 | 0.04 | 0.17 |
| (2,4100) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB2 | 7 | 0.18 | 0.04 | 0.17 |
| (2,4100) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB2 | 7 | 0.18 | 0.04 | 0.17 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD11 | 7 | 0.17 | 0.01 | 0.17 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD12 | 7 | 0.17 | 0.01 | 0.17 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD13 | 7 | 0.17 | 0.01 | 0.17 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 7 | 0.17 | 0.09 | 0.14 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 7 | 0.16 | 0.05 | 0.15 |
| (2,3987) | 1:26:A:SER:HB3 | 1:27:A:ASN:HB3 | 7 | 0.16 | 0.05 | 0.15 |
| (2,1398) | 1:33:A:VAL:HG12 | 1:74:A:PHE:HD2 | 7 | 0.15 | 0.04 | 0.16 |
| (2,1398) | 1:33:A:VAL:HG11 | 1:74:A:PHE:HD2 | 7 | 0.15 | 0.04 | 0.16 |
| (2,1398) | 1:33:A:VAL:HG13 | 1:74:A:PHE:HD2 | 7 | 0.15 | 0.04 | 0.16 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 7 | 0.14 | 0.03 | 0.14 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 7 | 0.13 | 0.04 | 0.11 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 7 | 0.13 | 0.01 | 0.12 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 7 | 0.11 | 0.01 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 7 | 0.11 | 0.01 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 7 | 0.11 | 0.01 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HG21 | 7 | 0.11 | 0.01 | 0.1 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 6 | 1.47 | 0.03 | 1.46 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 6 | 0.8 | 0.06 | 0.82 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 6 | 0.76 | 0.09 | 0.78 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD11 | 6 | 0.72 | 0.08 | 0.72 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD13 | 6 | 0.72 | 0.08 | 0.72 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD12 | 6 | 0.72 | 0.08 | 0.72 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 6 | 0.53 | 0.19 | 0.59 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 6 | 0.47 | 0.08 | 0.49 |
| (2,941) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 6 | 0.46 | 0.25 | 0.36 |
| (2,941) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 6 | 0.46 | 0.25 | 0.36 |
| (2,941) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 6 | 0.46 | 0.25 | 0.36 |
| (2,4287) | 1:86:A:LYS:HE2 | 1:134:A:LEU:HD12 | 6 | 0.41 | 0.2 | 0.38 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD13 | 6 | 0.41 | 0.2 | 0.38 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD12 | 6 | 0.41 | 0.2 | 0.38 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 6 | 0.4 | 0.09 | 0.4 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:45:A:ARG:H | 6 | 0.38 | 0.17 | 0.42 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD2 | 6 | 0.38 | 0.17 | 0.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD1 | 6 | 0.38 | 0.17 | 0.42 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG21 | 6 | 0.36 | 0.06 | 0.36 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG23 | 6 | 0.36 | 0.06 | 0.36 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG3 | 6 | 0.36 | 0.05 | 0.37 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG2 | 6 | 0.36 | 0.05 | 0.37 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 6 | 0.34 | 0.05 | 0.34 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 6 | 0.33 | 0.19 | 0.28 |
| (2,1197) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HG3 | 6 | 0.33 | 0.19 | 0.28 |
| (2,1380) | 1:135:A:ALA:HB2 | 1:141:A:LEU:HD21 | 6 | 0.33 | 0.09 | 0.33 |
| (2,1380) | 1:135:A:ALA:HB1 | 1:141:A:LEU:HD23 | 6 | 0.33 | 0.09 | 0.33 |
| (2,1380) | 1:135:A:ALA:HB3 | 1:141:A:LEU:HD21 | 6 | 0.33 | 0.09 | 0.33 |
| (2,1380) | 1:135:A:ALA:HB2 | 1:141:A:LEU:HD23 | 6 | 0.33 | 0.09 | 0.33 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 6 | 0.33 | 0.17 | 0.29 |
| (2,4968) | 1:152:A:LYS:HD3 | 1:76:A:TRP:HE1 | 6 | 0.33 | 0.17 | 0.29 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 6 | 0.32 | 0.13 | 0.3 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD11 | 6 | 0.31 | 0.18 | 0.24 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD13 | 6 | 0.31 | 0.18 | 0.24 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 6 | 0.3 | 0.01 | 0.3 |
| (2,4777) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 6 | 0.3 | 0.1 | 0.28 |
| (2,4777) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 6 | 0.3 | 0.1 | 0.28 |
| (2,4777) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 6 | 0.3 | 0.1 | 0.28 |
| (2,4777) | 1:11:A:LEU:HD11 | 1:12:A:ILE:H | 6 | 0.3 | 0.1 | 0.28 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 6 | 0.28 | 0.03 | 0.29 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 6 | 0.25 | 0.03 | 0.25 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 6 | 0.25 | 0.03 | 0.24 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD23 | 6 | 0.24 | 0.03 | 0.24 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD21 | 6 | 0.24 | 0.03 | 0.24 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD22 | 6 | 0.24 | 0.03 | 0.24 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 6 | 0.24 | 0.04 | 0.24 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB2 | 6 | 0.23 | 0.08 | 0.26 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB1 | 6 | 0.23 | 0.08 | 0.26 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB3 | 6 | 0.23 | 0.08 | 0.26 |
| (2,1310) | 1:149:A:ILE:HG21 | 1:148:A:GLU:H | 6 | 0.23 | 0.1 | 0.2 |
| (2,1310) | 1:149:A:ILE:HG23 | 1:148:A:GLU:H | 6 | 0.23 | 0.1 | 0.2 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 6 | 0.23 | 0.06 | 0.24 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 6 | 0.22 | 0.08 | 0.21 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE1 | 6 | 0.22 | 0.08 | 0.21 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 6 | 0.22 | 0.04 | 0.22 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 6 | 0.21 | 0.09 | 0.19 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB3 | 6 | 0.2 | 0.07 | 0.17 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 6 | 0.2 | 0.07 | 0.17 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 6 | 0.2 | 0.07 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 6 | 0.2 | 0.1 | 0.15 |
| (2,4281) | 1:85:A:SER:HB2 | 1:86:A:LYS:HA | 6 | 0.2 | 0.1 | 0.15 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 6 | 0.19 | 0.02 | 0.2 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD2 | 6 | 0.19 | 0.07 | 0.16 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD1 | 6 | 0.19 | 0.07 | 0.16 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 6 | 0.19 | 0.08 | 0.16 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 6 | 0.19 | 0.03 | 0.18 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 6 | 0.19 | 0.05 | 0.18 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG22 | 6 | 0.18 | 0.11 | 0.12 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG21 | 6 | 0.18 | 0.11 | 0.12 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG23 | 6 | 0.18 | 0.11 | 0.12 |
| (2,1700) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HD2 | 6 | 0.18 | 0.06 | 0.15 |
| (2,1700) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HD2 | 6 | 0.18 | 0.06 | 0.15 |
| (2,1700) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HD2 | 6 | 0.18 | 0.06 | 0.15 |
| (2,4326) | 1:33:A:VAL:HG21 | 1:125:A:PHE:HD2 | 6 | 0.18 | 0.05 | 0.16 |
| (2,4326) | 1:33:A:VAL:HG22 | 1:125:A:PHE:HD2 | 6 | 0.18 | 0.05 | 0.16 |
| (2,4326) | 1:33:A:VAL:HG23 | 1:125:A:PHE:HD2 | 6 | 0.18 | 0.05 | 0.16 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 6 | 0.17 | 0.04 | 0.18 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG13 | 6 | 0.17 | 0.07 | 0.16 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 6 | 0.17 | 0.07 | 0.16 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG11 | 6 | 0.17 | 0.07 | 0.16 |
| (2,1290) | 1:51:A:ILE:HD12 | 1:49:A:TYR:HB3 | 6 | 0.16 | 0.03 | 0.16 |
| (2,1290) | 1:51:A:ILE:HD13 | 1:49:A:TYR:HB3 | 6 | 0.16 | 0.03 | 0.16 |
| (2,2321) | 1:81:A:LEU:HD23 | 1:87:A:VAL:HB | 6 | 0.16 | 0.04 | 0.16 |
| (2,2321) | 1:81:A:LEU:HD21 | 1:87:A:VAL:HB | 6 | 0.16 | 0.04 | 0.16 |
| (2,2321) | 1:81:A:LEU:HD22 | 1:87:A:VAL:HB | 6 | 0.16 | 0.04 | 0.16 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 6 | 0.16 | 0.03 | 0.16 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG12 | 6 | 0.16 | 0.03 | 0.16 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 6 | 0.15 | 0.01 | 0.15 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 6 | 0.14 | 0.03 | 0.14 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD2 | 6 | 0.13 | 0.02 | 0.12 |
| (2,4269) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD3 | 6 | 0.13 | 0.02 | 0.12 |
| (2,4269) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 6 | 0.13 | 0.02 | 0.12 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD3 | 6 | 0.13 | 0.02 | 0.12 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 6 | 0.13 | 0.02 | 0.12 |
| (2,1387) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HA | 6 | 0.12 | 0.01 | 0.12 |
| (2,1387) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HA | 6 | 0.12 | 0.01 | 0.12 |
| (2,1387) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HA | 6 | 0.12 | 0.01 | 0.12 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 6 | 0.12 | 0.01 | 0.12 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 6 | 0.11 | 0.02 | 0.1 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 6 | 0.11 | 0.02 | 0.11 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 5 | 0.78 | 0.43 | 0.84 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2151) | 1:122:A:LEU:HD21 | 1:33:A:VAL:HG11 | 5 | 0.74 | 0.44 | 1.05 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG13 | 5 | 0.74 | 0.44 | 1.05 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG12 | 5 | 0.74 | 0.44 | 1.05 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG11 | 5 | 0.74 | 0.44 | 1.05 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG21 | 5 | 0.69 | 0.11 | 0.73 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG22 | 5 | 0.69 | 0.11 | 0.73 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG23 | 5 | 0.69 | 0.11 | 0.73 |
| (2,550) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG13 | 5 | 0.67 | 0.02 | 0.66 |
| (2,550) | 1:143:A:MET:HE1 | 1:150:A:ILE:HG13 | 5 | 0.67 | 0.02 | 0.66 |
| (2,550) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG13 | 5 | 0.67 | 0.02 | 0.66 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 5 | 0.56 | 0.22 | 0.66 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB2 | 5 | 0.49 | 0.18 | 0.54 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB3 | 5 | 0.49 | 0.18 | 0.54 |
| (2,264) | 1:150:A:ILE:HG21 | 1:150:A:ILE:HG13 | 5 | 0.48 | 0.02 | 0.47 |
| (2,264) | 1:150:A:ILE:HG22 | 1:150:A:ILE:HG13 | 5 | 0.48 | 0.02 | 0.47 |
| (2,264) | 1:150:A:ILE:HG23 | 1:150:A:ILE:HG13 | 5 | 0.48 | 0.02 | 0.47 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD22 | 5 | 0.47 | 0.61 | 0.17 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD21 | 5 | 0.47 | 0.61 | 0.17 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD12 | 5 | 0.47 | 0.61 | 0.17 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD23 | 5 | 0.47 | 0.61 | 0.17 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG12 | 5 | 0.45 | 0.13 | 0.46 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG11 | 5 | 0.45 | 0.13 | 0.46 |
| (2,243) | 1:150:A:ILE:HD11 | 1:150:A:ILE:H | 5 | 0.45 | 0.09 | 0.48 |
| (2,243) | 1:150:A:ILE:HD13 | 1:150:A:ILE:H | 5 | 0.45 | 0.09 | 0.48 |
| (2,243) | 1:150:A:ILE:HD12 | 1:150:A:ILE:H | 5 | 0.45 | 0.09 | 0.48 |
| (2,4581) | 1:106:A:ASP:HB3 | 1:105:A:GLY:HA2 | 5 | 0.42 | 0.26 | 0.22 |
| (2,4581) | 1:147:A:ASP:HB2 | 1:148:A:GLU:HA | 5 | 0.42 | 0.26 | 0.22 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 5 | 0.38 | 0.24 | 0.29 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 5 | 0.29 | 0.04 | 0.27 |
| (2,521) | 1:122:A:LEU:HD13 | 1:49:A:TYR:HD1 | 5 | 0.29 | 0.21 | 0.23 |
| (2,521) | 1:122:A:LEU:HD13 | 1:49:A:TYR:HD2 | 5 | 0.29 | 0.21 | 0.23 |
| (2,521) | 1:122:A:LEU:HD12 | 1:49:A:TYR:HD2 | 5 | 0.29 | 0.21 | 0.23 |
| (2,855) | 1:115:A:ILE:HG21 | 1:112:A:ASP:HA | 5 | 0.29 | 0.12 | 0.32 |
| (2,855) | 1:115:A:ILE:HG23 | 1:112:A:ASP:HA | 5 | 0.29 | 0.12 | 0.32 |
| (2,855) | 1:115:A:ILE:HG22 | 1:112:A:ASP:HA | 5 | 0.29 | 0.12 | 0.32 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 5 | 0.27 | 0.08 | 0.31 |
| (2,549) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG12 | 5 | 0.26 | 0.2 | 0.17 |
| (2,549) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG12 | 5 | 0.26 | 0.2 | 0.17 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 5 | 0.25 | 0.07 | 0.27 |
| (2,2271) | 1:145:A:LEU:HD11 | 1:60:A:PHE:HZ | 5 | 0.25 | 0.02 | 0.24 |
| (2,2271) | 1:145:A:LEU:HD12 | 1:60:A:PHE:HZ | 5 | 0.25 | 0.02 | 0.24 |
| (2,2271) | 1:145:A:LEU:HD13 | 1:60:A:PHE:HZ | 5 | 0.25 | 0.02 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 5 | 0.25 | 0.11 | 0.28 |
| (2,3790) | 1:143:A:MET:HA | 1:147:A:ASP:HB2 | 5 | 0.24 | 0.04 | 0.26 |
| (2,3790) | 1:143:A:MET:HA | 1:143:A:MET:HG2 | 5 | 0.24 | 0.04 | 0.26 |
| (2,3790) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 5 | 0.24 | 0.04 | 0.26 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 5 | 0.23 | 0.03 | 0.23 |
| (2,1257) | 1:150:A:ILE:HG22 | 1:152:A:LYS:HG2 | 5 | 0.23 | 0.05 | 0.23 |
| (2,1257) | 1:150:A:ILE:HG23 | 1:152:A:LYS:HG2 | 5 | 0.23 | 0.05 | 0.23 |
| (2,1257) | 1:150:A:ILE:HG21 | 1:152:A:LYS:HG2 | 5 | 0.23 | 0.05 | 0.23 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD2 | 5 | 0.22 | 0.06 | 0.18 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD1 | 5 | 0.22 | 0.06 | 0.18 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG13 | 5 | 0.21 | 0.1 | 0.15 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG23 | 5 | 0.21 | 0.1 | 0.15 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG12 | 5 | 0.21 | 0.1 | 0.15 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 5 | 0.21 | 0.11 | 0.17 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 5 | 0.2 | 0.14 | 0.13 |
| (2,4202) | 1:159:A:ILE:HG22 | 1:160:A:ARG:HD3 | 5 | 0.2 | 0.12 | 0.14 |
| (2,4202) | 1:159:A:ILE:HG23 | 1:160:A:ARG:HD3 | 5 | 0.2 | 0.12 | 0.14 |
| (2,4202) | 1:159:A:ILE:HG21 | 1:160:A:ARG:HD3 | 5 | 0.2 | 0.12 | 0.14 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 5 | 0.2 | 0.06 | 0.18 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 5 | 0.19 | 0.11 | 0.13 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 5 | 0.19 | 0.06 | 0.22 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 5 | 0.19 | 0.06 | 0.18 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 5 | 0.18 | 0.05 | 0.21 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 5 | 0.16 | 0.03 | 0.16 |
| (2,1706) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 5 | 0.16 | 0.04 | 0.19 |
| (2,1706) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 5 | 0.16 | 0.04 | 0.19 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD12 | 5 | 0.16 | 0.07 | 0.13 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD11 | 5 | 0.16 | 0.07 | 0.13 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD13 | 5 | 0.16 | 0.07 | 0.13 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 5 | 0.16 | 0.05 | 0.15 |
| (2,4816) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 5 | 0.15 | 0.03 | 0.16 |
| (2,4816) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 5 | 0.15 | 0.03 | 0.16 |
| (2,4816) | 1:81:A:LEU:HD23 | 1:81:A:LEU:H | 5 | 0.15 | 0.03 | 0.16 |
| (2,4816) | 1:81:A:LEU:HD22 | 1:81:A:LEU:H | 5 | 0.15 | 0.03 | 0.16 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 5 | 0.14 | 0.03 | 0.14 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 5 | 0.13 | 0.04 | 0.11 |
| (2,3248) | 1:129:A:VAL:HG23 | 1:132:A:HIS:H | 5 | 0.13 | 0.02 | 0.12 |
| (2,3248) | 1:129:A:VAL:HG22 | 1:132:A:HIS:H | 5 | 0.13 | 0.02 | 0.12 |
| (2,3248) | 1:129:A:VAL:HG21 | 1:132:A:HIS:H | 5 | 0.13 | 0.02 | 0.12 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 5 | 0.13 | 0.03 | 0.11 |
| (2,4050) | 1:29:A:LEU:HD13 | 1:57:A:LEU:HG | 5 | 0.13 | 0.03 | 0.12 |
| (2,4050) | 1:29:A:LEU:HD12 | 1:57:A:LEU:HG | 5 | 0.13 | 0.03 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 5 | 0.13 | 0.01 | 0.13 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 5 | 0.12 | 0.01 | 0.12 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 5 | 0.12 | 0.02 | 0.12 |
| (2,1113) | 1:149:A:ILE:HD13 | 1:149:A:ILE:HB | 5 | 0.12 | 0.01 | 0.12 |
| (2,1113) | 1:149:A:ILE:HD11 | 1:149:A:ILE:HB | 5 | 0.12 | 0.01 | 0.12 |
| (2,1113) | 1:149:A:ILE:HD12 | 1:149:A:ILE:HB | 5 | 0.12 | 0.01 | 0.12 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 5 | 0.12 | 0.01 | 0.12 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 5 | 0.11 | 0.01 | 0.11 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 5 | 0.11 | 0.01 | 0.11 |
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 5 | 0.11 | 0.01 | 0.11 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE3 | 4 | 0.83 | 0.4 | 1.03 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 4 | 0.83 | 0.4 | 1.03 |
| (2,3252) | 1:62:A:LEU:HD23 | 1:64:A:GLU:H | 4 | 0.8 | 1.02 | 0.27 |
| (2,3252) | 1:62:A:LEU:HD22 | 1:64:A:GLU:H | 4 | 0.8 | 1.02 | 0.27 |
| (2,3252) | 1:62:A:LEU:HD21 | 1:64:A:GLU:H | 4 | 0.8 | 1.02 | 0.27 |
| (2,3589) | 1:107:A:ASP:H | 1:106:A:ASP:HB3 | 4 | 0.79 | 0.16 | 0.77 |
| (2,870) | 1:115:A:ILE:HD12 | 1:36:A:PRO:HB3 | 4 | 0.75 | 0.59 | 0.72 |
| (2,870) | 1:115:A:ILE:HD13 | 1:36:A:PRO:HB3 | 4 | 0.75 | 0.59 | 0.72 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD22 | 4 | 0.72 | 0.13 | 0.7 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD21 | 4 | 0.72 | 0.13 | 0.7 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD23 | 4 | 0.72 | 0.13 | 0.7 |
| (2,1101) | 1:11:A:LEU:HD12 | 1:12:A:ILE:H | 4 | 0.72 | 0.14 | 0.65 |
| (2,1101) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 4 | 0.72 | 0.14 | 0.65 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB2 | 4 | 0.58 | 0.11 | 0.6 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB1 | 4 | 0.58 | 0.11 | 0.6 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB3 | 4 | 0.58 | 0.11 | 0.6 |
| (2,2384) | 1:60:A:PHE:HB3 | 1:57:A:LEU:HB3 | 4 | 0.54 | 0.1 | 0.55 |
| (2,1780) | 1:14:A:LYS:HB3 | 1:15:A:PRO:HD3 | 4 | 0.53 | 0.04 | 0.54 |
| (2,4772) | 1:10:A:ARG:H | 1:9:A:ARG:HD2 | 4 | 0.52 | 0.11 | 0.55 |
| (2,4772) | 1:10:A:ARG:H | 1:9:A:ARG:HD3 | 4 | 0.52 | 0.11 | 0.55 |
| (2,4772) | 1:10:A:ARG:H | 1:10:A:ARG:HD3 | 4 | 0.52 | 0.11 | 0.55 |
| (2,4309) | 1:86:A:LYS:HB2 | 1:86:A:LYS:HA | 4 | 0.47 | 0.02 | 0.48 |
| (2,4309) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HA | 4 | 0.47 | 0.02 | 0.48 |
| (2,3639) | 1:79:A:SER:HB3 | 1:78:A:ARG:HG2 | 4 | 0.46 | 0.15 | 0.41 |
| (2,3639) | 1:79:A:SER:HB3 | 1:83:A:ARG:HG3 | 4 | 0.46 | 0.15 | 0.41 |
| (2,523) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 4 | 0.45 | 0.22 | 0.4 |
| (2,523) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 4 | 0.45 | 0.22 | 0.4 |
| (2,523) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 4 | 0.45 | 0.22 | 0.4 |
| (2,47) | 1:83:A:ARG:HB2 | 1:83:A:ARG:HD3 | 4 | 0.44 | 0.18 | 0.54 |
| (2,3676) | 1:11:A:LEU:HA | 1:11:A:LEU:H | 4 | 0.42 | 0.09 | 0.43 |
| (2,3676) | 1:11:A:LEU:HA | 1:12:A:ILE:H | 4 | 0.42 | 0.09 | 0.43 |
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD3 | 4 | 0.42 | 0.26 | 0.42 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD2 | 4 | 0.42 | 0.26 | 0.42 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:24:A:PRO:HG2 | 4 | 0.42 | 0.13 | 0.43 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:58:A:PRO:HG3 | 4 | 0.42 | 0.13 | 0.43 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG23 | 4 | 0.41 | 0.12 | 0.43 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG22 | 4 | 0.41 | 0.12 | 0.43 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG21 | 4 | 0.41 | 0.12 | 0.43 |
| (2,753) | 1:122:A:LEU:HD21 | 1:33:A:VAL:HG21 | 4 | 0.41 | 0.12 | 0.43 |
| (2,4541) | 1:146:A:GLN:HG3 | 1:143:A:MET:HA | 4 | 0.4 | 0.19 | 0.35 |
| (2,4541) | 1:146:A:GLN:HG2 | 1:143:A:MET:HA | 4 | 0.4 | 0.19 | 0.35 |
| (2,4485) | 1:95:A:LYS:HE3 | 1:95:A:LYS:HG3 | 4 | 0.34 | 0.04 | 0.35 |
| (2,918) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HE2 | 4 | 0.3 | 0.21 | 0.22 |
| (2,918) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HE2 | 4 | 0.3 | 0.21 | 0.22 |
| (2,918) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HE1 | 4 | 0.3 | 0.21 | 0.22 |
| (2,4026) | 1:152:A:LYS:HE2 | 1:76:A:TRP:H | 4 | 0.29 | 0.04 | 0.3 |
| (2,4042) | 1:45:A:ARG:HD2 | 1:41:A:VAL:HA | 4 | 0.28 | 0.05 | 0.29 |
| (2,4745) | 1:62:A:LEU:H | 1:146:A:GLN:HB3 | 4 | 0.28 | 0.01 | 0.28 |
| (2,3582) | 1:12:A:ILE:HG13 | 1:11:A:LEU:H | 4 | 0.26 | 0.13 | 0.2 |
| (2,465) | 1:47:A:THR:HG23 | 1:114:A:PHE:HE2 | 4 | 0.26 | 0.08 | 0.24 |
| (2,465) | 1:47:A:THR:HG21 | 1:114:A:PHE:HE2 | 4 | 0.26 | 0.08 | 0.24 |
| (2,2285) | 1:161:A:HIS:HA | 1:161:A:HIS:HD2 | 4 | 0.26 | 0.08 | 0.3 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 4 | 0.26 | 0.13 | 0.25 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG21 | 4 | 0.26 | 0.13 | 0.25 |
| (2,2972) | 1:2:A:ALA:HB1 | 1:2:A:ALA:H | 4 | 0.25 | 0.08 | 0.3 |
| (2,2972) | 1:2:A:ALA:HB2 | 1:2:A:ALA:H | 4 | 0.25 | 0.08 | 0.3 |
| (2,4688) | 1:159:A:ILE:HG12 | 1:136:A:GLN:H | 4 | 0.25 | 0.04 | 0.24 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD21 | 4 | 0.25 | 0.04 | 0.24 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD22 | 4 | 0.25 | 0.04 | 0.24 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD23 | 4 | 0.25 | 0.04 | 0.24 |
| (2,4217) | 1:25:A:PRO:HA | 1:58:A:PRO:HD2 | 4 | 0.24 | 0.21 | 0.13 |
| (2,2142) | 1:31:A:ILE:HG21 | 1:33:A:VAL:HG12 | 4 | 0.24 | 0.07 | 0.22 |
| (2,2142) | 1:31:A:ILE:HG23 | 1:33:A:VAL:HG11 | 4 | 0.24 | 0.07 | 0.22 |
| (2,2142) | 1:31:A:ILE:HG23 | 1:33:A:VAL:HG13 | 4 | 0.24 | 0.07 | 0.22 |
| (2,2142) | 1:31:A:ILE:HG22 | 1:33:A:VAL:HG13 | 4 | 0.24 | 0.07 | 0.22 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG23 | 4 | 0.24 | 0.1 | 0.24 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG22 | 4 | 0.24 | 0.1 | 0.24 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG21 | 4 | 0.24 | 0.1 | 0.24 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD2 | 4 | 0.22 | 0.01 | 0.22 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD1 | 4 | 0.22 | 0.01 | 0.22 |
| (2,4179) | 1:141:A:LEU:HD12 | 1:60:A:PHE:HZ | 4 | 0.22 | 0.1 | 0.18 |
| (2,4179) | 1:141:A:LEU:HD13 | 1:60:A:PHE:HZ | 4 | 0.22 | 0.1 | 0.18 |
| (2,3605) | 1:61:A:LYS:H | 1:22:A:TYR:HE1 | 4 | 0.2 | 0.08 | 0.2 |
| (2,4576) | 1:54:A:LYS:HD2 | 1:28:A:PHE:HE1 | 4 | 0.2 | 0.06 | 0.18 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG3 | 4 | 0.2 | 0.06 | 0.19 |
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG2 | 4 | 0.2 | 0.06 | 0.19 |
| (2,2530) | 1:83:A:ARG:HG3 | 1:83:A:ARG:H | 4 | 0.2 | 0.01 | 0.2 |
| (2,4497) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HB2 | 4 | 0.2 | 0.03 | 0.2 |
| (2,4497) | 1:59:A:ILE:HD13 | 1:137:A:ASN:HB2 | 4 | 0.2 | 0.03 | 0.2 |
| (2,4858) | 1:159:A:ILE:H | 1:138:A:GLU:HA | 4 | 0.19 | 0.06 | 0.2 |
| (2,982) | 1:12:A:ILE:HA | 1:12:A:ILE:HG13 | 4 | 0.18 | 0.05 | 0.18 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG23 | 4 | 0.17 | 0.01 | 0.17 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG22 | 4 | 0.17 | 0.01 | 0.17 |
| (2,3757) | 1:47:A:THR:HG23 | 1:115:A:ILE:HA | 4 | 0.17 | 0.05 | 0.18 |
| (2,3757) | 1:47:A:THR:HG21 | 1:115:A:ILE:HA | 4 | 0.17 | 0.05 | 0.18 |
| (2,3757) | 1:47:A:THR:HG22 | 1:115:A:ILE:HA | 4 | 0.17 | 0.05 | 0.18 |
| (2,995) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 4 | 0.16 | 0.04 | 0.16 |
| (2,995) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 4 | 0.16 | 0.04 | 0.16 |
| (2,1696) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 4 | 0.16 | 0.02 | 0.16 |
| (2,1696) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 4 | 0.16 | 0.02 | 0.16 |
| (2,1696) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 4 | 0.16 | 0.02 | 0.16 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG3 | 4 | 0.16 | 0.05 | 0.14 |
| (2,4246) | 1:20:A:ASP:HB3 | 1:20:A:ASP:HA | 4 | 0.16 | 0.01 | 0.16 |
| (2,1299) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HB | 4 | 0.16 | 0.04 | 0.15 |
| (2,1299) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HB | 4 | 0.16 | 0.04 | 0.15 |
| (2,2982) | 1:4:A:THR:HG22 | 1:4:A:THR:H | 4 | 0.15 | 0.04 | 0.15 |
| (2,2982) | 1:4:A:THR:HG23 | 1:4:A:THR:H | 4 | 0.15 | 0.04 | 0.15 |
| (2,3000) | 1:38:A:THR:HG21 | 1:39:A:VAL:H | 4 | 0.15 | 0.02 | 0.15 |
| (2,3000) | 1:38:A:THR:HG22 | 1:39:A:VAL:H | 4 | 0.15 | 0.02 | 0.15 |
| (2,4194) | 1:10:A:ARG:HA | 1:10:A:ARG:H | 4 | 0.15 | 0.03 | 0.16 |
| (2,4942) | 1:140:A:CYS:H | 1:139:A:ARG:HG2 | 4 | 0.15 | 0.02 | 0.15 |
| (2,4112) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 4 | 0.14 | 0.03 | 0.15 |
| (2,4112) | 1:81:A:LEU:HD12 | 1:135:A:ALA:HB1 | 4 | 0.14 | 0.03 | 0.15 |
| (2,4112) | 1:81:A:LEU:HD13 | 1:135:A:ALA:HB2 | 4 | 0.14 | 0.03 | 0.15 |
| (2,4112) | 1:81:A:LEU:HD12 | 1:135:A:ALA:HB2 | 4 | 0.14 | 0.03 | 0.15 |
| (2,3815) | 1:14:A:LYS:HB3 | 1:14:A:LYS:HG3 | 4 | 0.14 | 0.02 | 0.15 |
| (2,1784) | 1:83:A:ARG:HG3 | 1:84:A:GLU:H | 4 | 0.14 | 0.03 | 0.13 |
| (2,2267) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 4 | 0.14 | 0.03 | 0.12 |
| (2,2267) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 4 | 0.14 | 0.03 | 0.12 |
| (2,2267) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 4 | 0.14 | 0.03 | 0.12 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 4 | 0.13 | 0.03 | 0.12 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG11 | 4 | 0.13 | 0.03 | 0.12 |
| (2,125) | 1:127:A:ASN:HA | 1:127:A:ASN:HD22 | 4 | 0.13 | 0.02 | 0.13 |
| (2,4159) | 1:53:A:VAL:HG13 | 1:66:A:THR:HA | 4 | 0.13 | 0.02 | 0.13 |
| (2,4159) | 1:53:A:VAL:HG12 | 1:66:A:THR:HA | 4 | 0.13 | 0.02 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (1,43) | 1:146:A:GLN:H | 1:142:A:HIS:O | 4 | 0.13 | 0.03 | 0.11 |
| (2,538) | 1:143:A:MET:HE2 | 1:151:A:ASP:H | 4 | 0.13 | 0.03 | 0.11 |
| (2,538) | 1:143:A:MET:HE3 | 1:151:A:ASP:H | 4 | 0.13 | 0.03 | 0.11 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG21 | 4 | 0.13 | 0.02 | 0.12 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG22 | 4 | 0.13 | 0.02 | 0.12 |
| (2,2428) | 1:20:A:ASP:H | 1:19:A:ASN:HB3 | 4 | 0.12 | 0.01 | 0.12 |
| (2,3584) | 1:108:A:GLY:H | 1:109:A:ILE:HA | 4 | 0.12 | 0.04 | 0.11 |
| (2,397) | 1:134:A:LEU:HG | 1:87:A:VAL:H | 4 | 0.12 | 0.01 | 0.12 |
| (2,712) | 1:124:A:GLN:HG3 | 1:123:A:GLU:H | 4 | 0.12 | 0.01 | 0.12 |
| (2,1249) | 1:101:A:LEU:HB3 | 1:101:A:LEU:H | 4 | 0.12 | 0.01 | 0.12 |
| (2,3119) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HD22 | 4 | 0.12 | 0.01 | 0.12 |
| (2,3119) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HD22 | 4 | 0.12 | 0.01 | 0.12 |
| (2,4207) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HE2 | 4 | 0.1 | 0.0 | 0.1 |
| (2,4207) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HE3 | 4 | 0.1 | 0.0 | 0.1 |
| (2,4504) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HB3 | 3 | 1.69 | 1.13 | 2.35 |
| (2,4504) | 1:77:A:LEU:HD12 | 1:74:A:PHE:HB3 | 3 | 1.69 | 1.13 | 2.35 |
| (2,1366) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HA | 3 | 1.39 | 0.58 | 1.78 |
| (2,1366) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HA | 3 | 1.39 | 0.58 | 1.78 |
| (2,1292) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HD23 | 3 | 1.34 | 0.08 | 1.29 |
| (2,1292) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HD23 | 3 | 1.34 | 0.08 | 1.29 |
| (2,1292) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HD21 | 3 | 1.34 | 0.08 | 1.29 |
| (2,1976) | 1:157:A:SER:HA | 1:158:A:LYS:HG2 | 3 | 1.29 | 0.07 | 1.31 |
| (2,1792) | 1:83:A:ARG:HD3 | 1:84:A:GLU:H | 3 | 0.98 | 0.01 | 0.97 |
| (2,1950) | 1:145:A:LEU:HD23 | 1:145:A:LEU:H | 3 | 0.9 | 0.28 | 1.09 |
| (2,1950) | 1:145:A:LEU:HD21 | 1:145:A:LEU:H | 3 | 0.9 | 0.28 | 1.09 |
| (2,756) | 1:122:A:LEU:HD22 | 1:74:A:PHE:HD1 | 3 | 0.88 | 0.09 | 0.84 |
| (2,756) | 1:122:A:LEU:HD23 | 1:74:A:PHE:HD1 | 3 | 0.88 | 0.09 | 0.84 |
| (2,1592) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HA | 3 | 0.8 | 0.43 | 1.07 |
| (2,1592) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HA | 3 | 0.8 | 0.43 | 1.07 |
| (2,3423) | 1:125:A:PHE:H | 1:123:A:GLU:HG2 | 3 | 0.73 | 0.06 | 0.72 |
| (2,4311) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HD2 | 3 | 0.71 | 0.05 | 0.72 |
| (2,4311) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HD3 | 3 | 0.71 | 0.05 | 0.72 |
| (2,4891) | 1:143:A:MET:H | 1:150:A:ILE:HD12 | 3 | 0.6 | 0.31 | 0.65 |
| (2,4891) | 1:143:A:MET:H | 1:77:A:LEU:HD23 | 3 | 0.6 | 0.31 | 0.65 |
| (2,4891) | 1:143:A:MET:H | 1:150:A:ILE:HD11 | 3 | 0.6 | 0.31 | 0.65 |
| (2,4566) | 1:157:A:SER:HB2 | 1:139:A:ARG:HD3 | 3 | 0.52 | 0.3 | 0.66 |
| (2,4566) | 1:157:A:SER:HB2 | 1:139:A:ARG:HD2 | 3 | 0.52 | 0.3 | 0.66 |
| (2,3953) | 1:111:A:ASP:HB3 | 1:108:A:GLY:HA3 | 3 | 0.49 | 0.04 | 0.5 |
| (2,3953) | 1:111:A:ASP:HB3 | 1:108:A:GLY:HA2 | 3 | 0.49 | 0.04 | 0.5 |
| (2,2570) | 1:96:A:ALA:H | 1:95:A:LYS:HG3 | 3 | 0.45 | 0.38 | 0.22 |
| (2,4358) | 1:157:A:SER:HA | 1:158:A:LYS:HD3 | 3 | 0.44 | 0.07 | 0.41 |
| (2,4358) | 1:157:A:SER:HA | 1:158:A:LYS:HD2 | 3 | 0.44 | 0.07 | 0.41 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1625) | 1:160:A:ARG:HD3 | 1:159:A:ILE:HB | 3 | 0.43 | 0.14 | 0.4 |
| (2,4093) | 1:115:A:ILE:HG21 | 1:49:A:TYR:HD1 | 3 | 0.43 | 0.14 | 0.48 |
| (2,4093) | 1:115:A:ILE:HG23 | 1:49:A:TYR:HD1 | 3 | 0.43 | 0.14 | 0.48 |
| (2,4093) | 1:115:A:ILE:HG23 | 1:49:A:TYR:HD2 | 3 | 0.43 | 0.14 | 0.48 |
| (2,3983) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HB3 | 3 | 0.41 | 0.03 | 0.39 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD22 | 3 | 0.38 | 0.16 | 0.44 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD21 | 3 | 0.38 | 0.16 | 0.44 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD23 | 3 | 0.38 | 0.16 | 0.44 |
| (2,3885) | 1:122:A:LEU:HD21 | 1:93:A:PRO:HG2 | 3 | 0.37 | 0.07 | 0.33 |
| (2,3885) | 1:122:A:LEU:HD22 | 1:93:A:PRO:HG2 | 3 | 0.37 | 0.07 | 0.33 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG23 | 3 | 0.34 | 0.14 | 0.37 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG22 | 3 | 0.34 | 0.14 | 0.37 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG21 | 3 | 0.34 | 0.14 | 0.37 |
| (2,763) | 1:36:A:PRO:HG3 | 1:115:A:ILE:HD13 | 3 | 0.3 | 0.05 | 0.31 |
| (2,763) | 1:36:A:PRO:HG3 | 1:115:A:ILE:HD12 | 3 | 0.3 | 0.05 | 0.31 |
| (2,1972) | 1:157:A:SER:HB3 | 1:158:A:LYS:HG2 | 3 | 0.3 | 0.1 | 0.37 |
| (2,3053) | 1:16:A:GLN:HG3 | 1:16:A:GLN:H | 3 | 0.3 | 0.14 | 0.31 |
| (2,1951) | 1:38:A:THR:HG21 | 1:110:A:PHE:HE2 | 3 | 0.29 | 0.08 | 0.33 |
| (2,1951) | 1:38:A:THR:HG22 | 1:110:A:PHE:HE2 | 3 | 0.29 | 0.08 | 0.33 |
| (2,1951) | 1:38:A:THR:HG23 | 1:110:A:PHE:HE2 | 3 | 0.29 | 0.08 | 0.33 |
| (2,3306) | 1:84:A:GLU:H | 1:85:A:SER:HB2 | 3 | 0.25 | 0.01 | 0.26 |
| (2,3567) | 1:68:A:ARG:H | 1:149:A:ILE:HG23 | 3 | 0.25 | 0.12 | 0.17 |
| (2,3567) | 1:68:A:ARG:H | 1:149:A:ILE:HG21 | 3 | 0.25 | 0.12 | 0.17 |
| (2,988) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HB3 | 3 | 0.24 | 0.03 | 0.26 |
| (2,3788) | 1:152:A:LYS:HA | 1:152:A:LYS:HD3 | 3 | 0.24 | 0.07 | 0.27 |
| (2,3788) | 1:152:A:LYS:HA | 1:152:A:LYS:HD2 | 3 | 0.24 | 0.07 | 0.27 |
| (2,3705) | 1:92:A:LEU:HG | 1:93:A:PRO:HD3 | 3 | 0.24 | 0.05 | 0.22 |
| (2,2831) | 1:113:A:ASN:HB2 | 1:113:A:ASN:HD22 | 3 | 0.24 | 0.01 | 0.24 |
| (2,4736) | 1:138:A:GLU:HG2 | 1:135:A:ALA:H | 3 | 0.24 | 0.12 | 0.16 |
| (2,4736) | 1:135:A:ALA:H | 1:138:A:GLU:HB2 | 3 | 0.24 | 0.12 | 0.16 |
| (2,4186) | 1:77:A:LEU:HD21 | 1:140:A:CYS:HB3 | 3 | 0.23 | 0.15 | 0.15 |
| (2,4186) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HB3 | 3 | 0.23 | 0.15 | 0.15 |
| (2,1663) | 1:-1:A:VAL:HA | 1:-1:A:VAL:HB | 3 | 0.23 | 0.01 | 0.24 |
| (2,2581) | 1:98:A:LEU:HD22 | 1:99:A:ARG:H | 3 | 0.23 | 0.04 | 0.24 |
| (2,2581) | 1:98:A:LEU:HD21 | 1:99:A:ARG:H | 3 | 0.23 | 0.04 | 0.24 |
| (2,4378) | 1:58:A:PRO:HA | 1:60:A:PHE:H | 3 | 0.22 | 0.1 | 0.17 |
| (2,4378) | 1:58:A:PRO:HA | 1:22:A:TYR:HD2 | 3 | 0.22 | 0.1 | 0.17 |
| (2,4378) | 1:58:A:PRO:HA | 1:22:A:TYR:HD1 | 3 | 0.22 | 0.1 | 0.17 |
| (2,4755) | 1:0:A:GLY:HA2 | 1:1:A:THR:H | 3 | 0.22 | 0.05 | 0.21 |
| (2,4755) | 1:0:A:GLY:HA3 | 1:1:A:THR:H | 3 | 0.22 | 0.05 | 0.21 |
| (2,4367) | 1:62:A:LEU:HD21 | 1:61:A:LYS:H | 3 | 0.21 | 0.08 | 0.16 |
| (2,4367) | 1:62:A:LEU:HD22 | 1:61:A:LYS:H | 3 | 0.21 | 0.08 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4821) | 1:51:A:ILE:H | 1:68:A:ARG:HG2 | 3 | 0.21 | 0.04 | 0.21 |
| (2,4862) | 1:158:A:LYS:H | 1:139:A:ARG:HB2 | 3 | 0.21 | 0.04 | 0.22 |
| (2,1294) | 1:51:A:ILE:HD11 | 1:67:A:VAL:HG22 | 3 | 0.2 | 0.02 | 0.21 |
| (2,1294) | 1:51:A:ILE:HD12 | 1:67:A:VAL:HG21 | 3 | 0.2 | 0.02 | 0.21 |
| (2,1294) | 1:51:A:ILE:HD12 | 1:67:A:VAL:HG23 | 3 | 0.2 | 0.02 | 0.21 |
| (2,4374) | 1:43:A:ARG:HB2 | 1:43:A:ARG:HD2 | 3 | 0.2 | 0.07 | 0.18 |
| (2,4375) | 1:43:A:ARG:HB3 | 1:43:A:ARG:HD3 | 3 | 0.2 | 0.11 | 0.13 |
| (2,2251) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 3 | 0.19 | 0.0 | 0.19 |
| (2,2251) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD13 | 3 | 0.19 | 0.0 | 0.19 |
| (2,2251) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD13 | 3 | 0.19 | 0.0 | 0.19 |
| (2,3892) | 1:93:A:PRO:HG2 | 1:71:A:TYR:HE1 | 3 | 0.19 | 0.06 | 0.2 |
| (2,798) | 1:118:A:ARG:HA | 1:122:A:LEU:HD21 | 3 | 0.19 | 0.07 | 0.14 |
| (2,798) | 1:118:A:ARG:HA | 1:122:A:LEU:HD22 | 3 | 0.19 | 0.07 | 0.14 |
| (2,1585) | 1:141:A:LEU:HD11 | 1:141:A:LEU:H | 3 | 0.19 | 0.05 | 0.19 |
| (2,1585) | 1:141:A:LEU:HD12 | 1:141:A:LEU:H | 3 | 0.19 | 0.05 | 0.19 |
| (2,3833) | 1:127:A:ASN:HA | 1:29:A:LEU:HD22 | 3 | 0.19 | 0.01 | 0.19 |
| (2,3833) | 1:127:A:ASN:HA | 1:29:A:LEU:HD23 | 3 | 0.19 | 0.01 | 0.19 |
| (2,4192) | 1:50:A:GLU:HG2 | 1:52:A:ARG:HD3 | 3 | 0.19 | 0.03 | 0.2 |
| (2,4192) | 1:50:A:GLU:HG2 | 1:52:A:ARG:HD2 | 3 | 0.19 | 0.03 | 0.2 |
| (2,2995) | 1:4:A:THR:HA | 1:5:A:VAL:H | 3 | 0.18 | 0.05 | 0.2 |
| (2,46) | 1:83:A:ARG:HB3 | 1:83:A:ARG:HD3 | 3 | 0.18 | 0.02 | 0.17 |
| (2,926) | 1:109:A:ILE:HD11 | 1:45:A:ARG:HB3 | 3 | 0.18 | 0.04 | 0.19 |
| (2,926) | 1:109:A:ILE:HD12 | 1:45:A:ARG:HB3 | 3 | 0.18 | 0.04 | 0.19 |
| (2,1055) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HA | 3 | 0.17 | 0.04 | 0.18 |
| (2,568) | 1:143:A:MET:HG2 | 1:150:A:ILE:HA | 3 | 0.16 | 0.05 | 0.14 |
| (2,272) | 1:22:A:TYR:HB2 | 1:28:A:PHE:HD2 | 3 | 0.16 | 0.01 | 0.16 |
| (2,4518) | 1:115:A:ILE:HD13 | 1:113:A:ASN:H | 3 | 0.16 | 0.02 | 0.15 |
| (2,4518) | 1:115:A:ILE:HD11 | 1:113:A:ASN:H | 3 | 0.16 | 0.02 | 0.15 |
| (2,417) | 1:87:A:VAL:HG23 | 1:132:A:HIS:HD2 | 3 | 0.15 | 0.03 | 0.13 |
| (2,417) | 1:87:A:VAL:HG21 | 1:132:A:HIS:HD2 | 3 | 0.15 | 0.03 | 0.13 |
| (2,4762) | 1:26:A:SER:HB3 | 1:26:A:SER:H | 3 | 0.14 | 0.03 | 0.16 |
| (2,3058) | 1:17:A:ASN:H | 1:17:A:ASN:HB3 | 3 | 0.14 | 0.01 | 0.15 |
| (2,896) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG2 | 3 | 0.14 | 0.03 | 0.13 |
| (2,3537) | 1:100:A:GLN:HE21 | 1:100:A:GLN:HB2 | 3 | 0.14 | 0.02 | 0.13 |
| (2,1203) | 1:29:A:LEU:HD21 | 1:31:A:ILE:HD12 | 3 | 0.13 | 0.02 | 0.14 |
| (2,1203) | 1:29:A:LEU:HD21 | 1:31:A:ILE:HD11 | 3 | 0.13 | 0.02 | 0.14 |
| (2,1203) | 1:29:A:LEU:HD23 | 1:31:A:ILE:HD12 | 3 | 0.13 | 0.02 | 0.14 |
| (2,52) | 1:83:A:ARG:HA | 1:83:A:ARG:HD2 | 3 | 0.13 | 0.02 | 0.13 |
| (2,3830) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 3 | 0.13 | 0.03 | 0.11 |
| (2,3830) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 3 | 0.13 | 0.03 | 0.11 |
| (2,3830) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD3 | 3 | 0.13 | 0.03 | 0.11 |
| (2,4830) | 1:58:A:PRO:HB3 | 1:59:A:ILE:H | 3 | 0.13 | 0.03 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,4010) | 1:139:A:ARG:HB3 | 1:141:A:LEU:H | 3 | 0.13 | 0.02 | 0.12 |
| (2,4615) | 1:84:A:GLU:H | 1:82:A:GLU:H | 3 | 0.13 | 0.0 | 0.13 |
| (2,213) | 1:158:A:LYS:HB3 | 1:137:A:ASN:HD21 | 3 | 0.12 | 0.01 | 0.12 |
| (2,821) | 1:117:A:GLU:HG3 | 1:117:A:GLU:H | 3 | 0.12 | 0.0 | 0.12 |
| (2,1432) | 1:149:A:ILE:HB | 1:148:A:GLU:H | 3 | 0.12 | 0.01 | 0.12 |
| (2,273) | 1:22:A:TYR:HB3 | 1:28:A:PHE:HD2 | 3 | 0.12 | 0.0 | 0.12 |
| (2,305) | 1:92:A:LEU:HD12 | 1:75:A:GLU:H | 3 | 0.12 | 0.02 | 0.11 |
| (2,305) | 1:92:A:LEU:HD13 | 1:75:A:GLU:H | 3 | 0.12 | 0.02 | 0.11 |
| (2,1538) | 1:41:A:VAL:HA | 1:45:A:ARG:HB2 | 3 | 0.12 | 0.01 | 0.12 |
| (2,2064) | 1:33:A:VAL:HB | 1:123:A:GLU:H | 3 | 0.12 | 0.01 | 0.13 |
| (2,2997) | 1:6:A:ALA:H | 1:5:A:VAL:HB | 3 | 0.12 | 0.02 | 0.12 |
| (2,2793) | 1:44:A:GLY:H | 1:42:A:GLY:HA2 | 3 | 0.12 | 0.0 | 0.12 |
| (2,514) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB2 | 3 | 0.11 | 0.01 | 0.11 |
| (2,514) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB2 | 3 | 0.11 | 0.01 | 0.11 |
| (2,3419) | 1:124:A:GLN:HE21 | 1:123:A:GLU:HG3 | 3 | 0.11 | 0.01 | 0.11 |
| (2,2587) | 1:7:A:ASP:H | 1:7:A:ASP:HB2 | 3 | 0.11 | 0.0 | 0.11 |
| (2,4886) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HB3 | 3 | 0.11 | 0.0 | 0.11 |
| (2,328) | 1:102:A:PRO:HA | 1:102:A:PRO:HG3 | 3 | 0.11 | 0.0 | 0.11 |
| (2,1414) | 1:136:A:GLN:HG3 | 1:136:A:GLN:HA | 3 | 0.11 | 0.0 | 0.11 |
| (2,1790) | 1:83:A:ARG:HD3 | 1:83:A:ARG:H | 3 | 0.11 | 0.01 | 0.11 |
| (2,3996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 3 | 0.1 | 0.0 | 0.1 |
| (2,3996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 3 | 0.1 | 0.0 | 0.1 |
| (2,2211) | 1:77:A:LEU:HD13 | 1:125:A:PHE:HE2 | 2 | 2.59 | 0.12 | 2.59 |
| (2,1098) | 1:11:A:LEU:HA | 1:11:A:LEU:HD13 | 2 | 1.94 | 0.28 | 1.94 |
| (2,1098) | 1:11:A:LEU:HA | 1:11:A:LEU:HD12 | 2 | 1.94 | 0.28 | 1.94 |
| (2,1594) | 1:77:A:LEU:HA | 1:77:A:LEU:HD22 | 2 | 1.4 | 0.01 | 1.4 |
| (2,1594) | 1:77:A:LEU:HA | 1:77:A:LEU:HD21 | 2 | 1.4 | 0.01 | 1.4 |
| (2,4472) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HA | 2 | 1.32 | 0.09 | 1.32 |
| (2,4472) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HA | 2 | 1.32 | 0.09 | 1.32 |
| (2,1988) | 1:77:A:LEU:HD11 | 1:78:A:ARG:H | 2 | 1.06 | 0.02 | 1.06 |
| (2,4242) | 1:142:A:HIS:HA | 1:145:A:LEU:HB2 | 2 | 1.0 | 0.07 | 1.0 |
| (2,4242) | 1:142:A:HIS:HA | 1:61:A:LYS:HB3 | 2 | 1.0 | 0.07 | 1.0 |
| (2,2292) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HA | 2 | 0.78 | 0.14 | 0.78 |
| (2,629) | 1:129:A:VAL:HG21 | 1:77:A:LEU:HD12 | 2 | 0.59 | 0.09 | 0.59 |
| (2,629) | 1:129:A:VAL:HG22 | 1:77:A:LEU:HD12 | 2 | 0.59 | 0.09 | 0.59 |
| (2,3612) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 2 | 0.48 | 0.38 | 0.48 |
| (2,16) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB2 | 2 | 0.46 | 0.11 | 0.46 |
| (2,1702) | 1:36:A:PRO:HD3 | 1:36:A:PRO:HB3 | 2 | 0.42 | 0.02 | 0.42 |
| (2,4499) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD11 | 2 | 0.41 | 0.18 | 0.41 |
| (2,4499) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD12 | 2 | 0.41 | 0.18 | 0.41 |
| (2,137) | 1:67:A:VAL:HG22 | 1:68:A:ARG:H | 2 | 0.36 | 0.04 | 0.36 |
| (2,137) | 1:67:A:VAL:HG21 | 1:68:A:ARG:H | 2 | 0.36 | 0.04 | 0.36 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3982) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HB2 | 2 | 0.36 | 0.13 | 0.36 |
| (2,4468) | 1:77:A:LEU:HD12 | 1:141:A:LEU:HG | 2 | 0.36 | 0.06 | 0.36 |
| (2,33) | 1:27:A:ASN:HA | 1:56:A:ASN:HD21 | 2 | 0.36 | 0.22 | 0.36 |
| (2,4767) | 1:9:A:ARG:H | 1:9:A:ARG:HD3 | 2 | 0.36 | 0.12 | 0.36 |
| (2,3328) | 1:158:A:LYS:HG2 | 1:158:A:LYS:H | 2 | 0.34 | 0.08 | 0.34 |
| (2,3745) | 1:87:A:VAL:HG23 | 1:138:A:GLU:HB2 | 2 | 0.32 | 0.13 | 0.32 |
| (2,3745) | 1:87:A:VAL:HG21 | 1:138:A:GLU:HB2 | 2 | 0.32 | 0.13 | 0.32 |
| (2,2208) | 1:77:A:LEU:HB3 | 1:77:A:LEU:HD13 | 2 | 0.32 | 0.02 | 0.32 |
| (2,2900) | 1:50:A:GLU:H | 1:68:A:ARG:HG2 | 2 | 0.32 | 0.08 | 0.32 |
| (2,3016) | 1:9:A:ARG:HA | 1:9:A:ARG:H | 2 | 0.31 | 0.02 | 0.31 |
| (2,3979) | 1:9:A:ARG:HB3 | 1:9:A:ARG:HD2 | 2 | 0.29 | 0.0 | 0.29 |
| (2,519) | 1:122:A:LEU:HD12 | 1:74:A:PHE:HD2 | 2 | 0.29 | 0.05 | 0.29 |
| (2,519) | 1:122:A:LEU:HD11 | 1:74:A:PHE:HD2 | 2 | 0.29 | 0.05 | 0.29 |
| (2,4563) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 2 | 0.27 | 0.13 | 0.27 |
| (2,947) | 1:147:A:ASP:HB2 | 1:149:A:ILE:H | 2 | 0.24 | 0.0 | 0.24 |
| (2,4616) | 1:85:A:SER:H | 1:82:A:GLU:HB2 | 2 | 0.24 | 0.12 | 0.24 |
| (2,3066) | 1:16:A:GLN:HE21 | 1:16:A:GLN:HB2 | 2 | 0.23 | 0.04 | 0.23 |
| (2,1337) | 1:67:A:VAL:HG22 | 1:52:A:ARG:H | 2 | 0.22 | 0.04 | 0.22 |
| (2,4631) | 1:104:A:ARG:H | 1:103:A:PHE:HB3 | 2 | 0.22 | 0.09 | 0.22 |
| (2,4631) | 1:104:A:ARG:H | 1:103:A:PHE:HB2 | 2 | 0.22 | 0.09 | 0.22 |
| (2,1952) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 2 | 0.22 | 0.06 | 0.22 |
| (2,4589) | 1:35:A:ASN:H | 1:36:A:PRO:HB3 | 2 | 0.22 | 0.02 | 0.22 |
| (2,4961) | 1:112:A:ASP:H | 1:115:A:ILE:HB | 2 | 0.22 | 0.01 | 0.22 |
| (2,4521) | 1:77:A:LEU:HD23 | 1:141:A:LEU:H | 2 | 0.21 | 0.0 | 0.21 |
| (2,4521) | 1:77:A:LEU:HD22 | 1:141:A:LEU:H | 2 | 0.21 | 0.0 | 0.21 |
| (2,1283) | 1:31:A:ILE:HD12 | 1:31:A:ILE:H | 2 | 0.2 | 0.0 | 0.2 |
| (2,1283) | 1:31:A:ILE:HD13 | 1:31:A:ILE:H | 2 | 0.2 | 0.0 | 0.2 |
| (2,3249) | 1:62:A:LEU:H | 1:60:A:PHE:HD2 | 2 | 0.2 | 0.04 | 0.2 |
| (2,4188) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HB3 | 2 | 0.2 | 0.03 | 0.2 |
| (2,4188) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HB3 | 2 | 0.2 | 0.03 | 0.2 |
| (2,457) | 1:48:A:THR:HG22 | 1:46:A:PHE:HE2 | 2 | 0.2 | 0.06 | 0.2 |
| (2,457) | 1:48:A:THR:HG23 | 1:46:A:PHE:HE2 | 2 | 0.2 | 0.06 | 0.2 |
| (2,4391) | 1:78:A:ARG:HG3 | 1:81:A:LEU:HD11 | 2 | 0.19 | 0.06 | 0.19 |
| (2,4391) | 1:78:A:ARG:HG3 | 1:81:A:LEU:HD13 | 2 | 0.19 | 0.06 | 0.19 |
| (2,4909) | 1:127:A:ASN:H | 1:123:A:GLU:HG3 | 2 | 0.19 | 0.02 | 0.19 |
| (2,4909) | 1:127:A:ASN:H | 1:124:A:GLN:HB3 | 2 | 0.19 | 0.02 | 0.19 |
| (2,4594) | 1:19:A:ASN:H | 1:18:A:LEU:HB3 | 2 | 0.18 | 0.04 | 0.18 |
| (2,4234) | 1:35:A:ASN:HB3 | 1:36:A:PRO:HD2 | 2 | 0.18 | 0.03 | 0.18 |
| (2,4751) | 1:34:A:SER:H | 1:32:A:ASP:HB3 | 2 | 0.18 | 0.06 | 0.18 |
| (2,4751) | 1:34:A:SER:H | 1:35:A:ASN:HB3 | 2 | 0.18 | 0.06 | 0.18 |
| (2,251) | 1:150:A:ILE:HG21 | 1:154:A:TYR:HE1 | 2 | 0.17 | 0.03 | 0.17 |
| (2,1099) | 1:18:A:LEU:HD23 | 1:18:A:LEU:HA | 2 | 0.17 | 0.02 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,3081) | 1:22:A:TYR:H | 1:22:A:TYR:HE2 | 2 | 0.17 | 0.01 | 0.17 |
| (2,3081) | 1:22:A:TYR:H | 1:22:A:TYR:HE1 | 2 | 0.17 | 0.01 | 0.17 |
| (2,1085) | 1:139:A:ARG:HD3 | 1:161:A:HIS:HD2 | 2 | 0.16 | 0.06 | 0.16 |
| (2,4095) | 1:59:A:ILE:HG23 | 1:137:A:ASN:H | 2 | 0.16 | 0.04 | 0.16 |
| (2,4851) | 1:89:A:VAL:H | 1:82:A:GLU:H | 2 | 0.16 | 0.06 | 0.16 |
| (2,3718) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB2 | 2 | 0.16 | 0.05 | 0.16 |
| (2,4975) | 1:108:A:GLY:H | 1:105:A:GLY:HA3 | 2 | 0.16 | 0.05 | 0.16 |
| (2,466) | 1:47:A:THR:HG23 | 1:49:A:TYR:HE1 | 2 | 0.15 | 0.02 | 0.15 |
| (2,466) | 1:47:A:THR:HG23 | 1:49:A:TYR:HE2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,292) | 1:92:A:LEU:HD13 | 1:93:A:PRO:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (2,1516) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HD21 | 2 | 0.15 | 0.02 | 0.15 |
| (2,1516) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HD23 | 2 | 0.15 | 0.02 | 0.15 |
| (2,1750) | 1:80:A:GLU:HA | 1:84:A:GLU:H | 2 | 0.15 | 0.02 | 0.15 |
| (2,3887) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (2,3887) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 2 | 0.15 | 0.0 | 0.15 |
| (2,4771) | 1:10:A:ARG:H | 1:9:A:ARG:HB3 | 2 | 0.15 | 0.03 | 0.15 |
| (2,4731) | 1:37:A:GLN:H | 1:36:A:PRO:HG2 | 2 | 0.14 | 0.03 | 0.14 |
| (2,4731) | 1:37:A:GLN:H | 1:37:A:GLN:HG2 | 2 | 0.14 | 0.03 | 0.14 |
| (2,1522) | 1:57:A:LEU:HD13 | 1:60:A:PHE:HZ | 2 | 0.14 | 0.04 | 0.14 |
| (2,4291) | 1:64:A:GLU:HG3 | 1:54:A:LYS:HE3 | 2 | 0.14 | 0.01 | 0.14 |
| (2,4291) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE2 | 2 | 0.14 | 0.01 | 0.14 |
| (2,4850) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 2 | 0.14 | 0.01 | 0.14 |
| (2,1901) | 1:116:A:GLU:HG3 | 1:118:A:ARG:H | 2 | 0.14 | 0.01 | 0.14 |
| (2,2405) | 1:109:A:ILE:HB | 1:115:A:ILE:HA | 2 | 0.14 | 0.04 | 0.14 |
| (2,3800) | 1:129:A:VAL:HA | 1:88:A:VAL:HG13 | 2 | 0.14 | 0.02 | 0.14 |
| (2,3800) | 1:129:A:VAL:HA | 1:88:A:VAL:HG12 | 2 | 0.14 | 0.02 | 0.14 |
| (2,956) | 1:148:A:GLU:HB2 | 1:148:A:GLU:H | 2 | 0.13 | 0.0 | 0.13 |
| (2,3895) | 1:120:A:GLN:HA | 1:122:A:LEU:H | 2 | 0.13 | 0.02 | 0.13 |
| (2,4276) | 1:75:A:GLU:HG2 | 1:74:A:PHE:HA | 2 | 0.13 | 0.01 | 0.13 |
| (2,4490) | 1:128:A:LYS:HD3 | 1:90:A:PRO:HB3 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1309) | 1:149:A:ILE:HG21 | 1:150:A:ILE:H | 2 | 0.12 | 0.02 | 0.12 |
| (2,1309) | 1:149:A:ILE:HG23 | 1:150:A:ILE:H | 2 | 0.12 | 0.02 | 0.12 |
| (2,2121) | 1:58:A:PRO:HB2 | 1:59:A:ILE:HA | 2 | 0.12 | 0.02 | 0.12 |
| (2,2628) | 1:148:A:GLU:H | 1:149:A:ILE:H | 2 | 0.12 | 0.01 | 0.12 |
| (2,3694) | 1:150:A:ILE:HD12 | 1:69:A:ARG:HG3 | 2 | 0.12 | 0.02 | 0.12 |
| (2,3694) | 1:150:A:ILE:HD11 | 1:69:A:ARG:HG2 | 2 | 0.12 | 0.02 | 0.12 |
| (2,754) | 1:119:A:LYS:HA | 1:122:A:LEU:HD21 | 2 | 0.12 | 0.02 | 0.12 |
| (2,3199) | 1:39:A:VAL:HG13 | 1:46:A:PHE:H | 2 | 0.12 | 0.02 | 0.12 |
| (2,3199) | 1:39:A:VAL:HG12 | 1:46:A:PHE:H | 2 | 0.12 | 0.02 | 0.12 |
| (2,957) | 1:148:A:GLU:HB3 | 1:148:A:GLU:H | 2 | 0.12 | 0.0 | 0.12 |
| (2,1024) | 1:148:A:GLU:HG3 | 1:149:A:ILE:H | 2 | 0.12 | 0.0 | 0.12 |
| (2,2057) | 1:150:A:ILE:HG13 | 1:149:A:ILE:HA | 2 | 0.12 | 0.0 | 0.12 |

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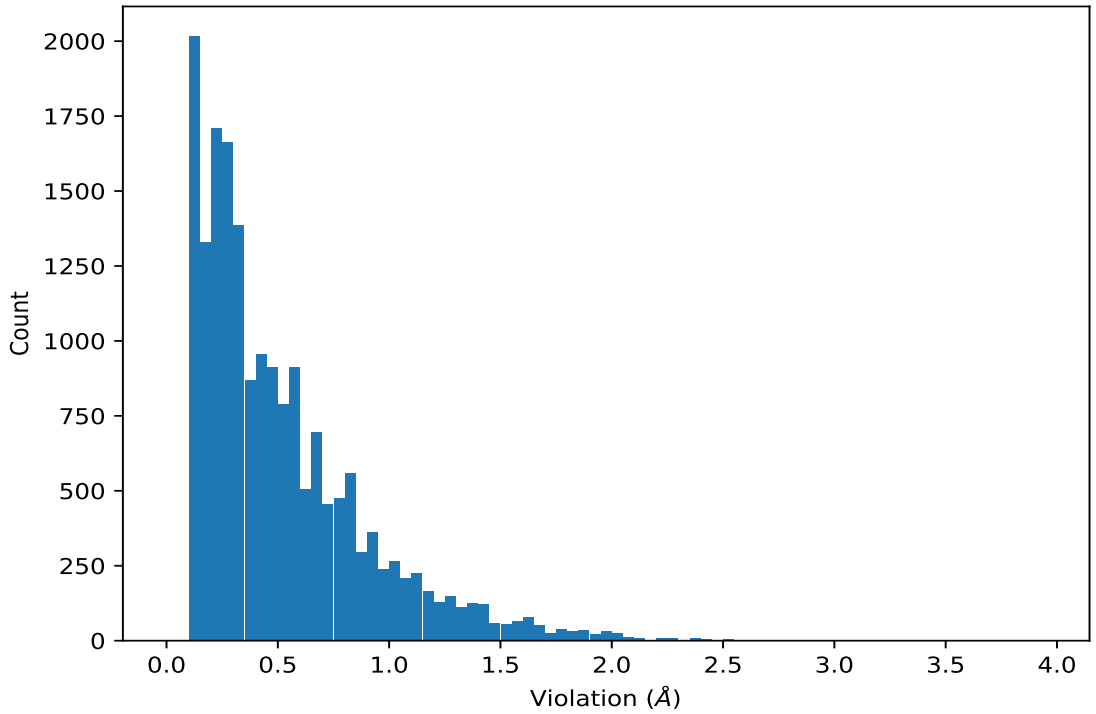
| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,2834) | 1:113:A:ASN:HA | 1:113:A:ASN:HD21 | 2 | 0.12 | 0.0 | 0.12 |
| (2,4569) | 1:104:A:ARG:HB2 | 1:104:A:ARG:HG2 | 2 | 0.12 | 0.0 | 0.12 |
| (2,96) | 1:152:A:LYS:HA | 1:152:A:LYS:HG3 | 2 | 0.11 | 0.0 | 0.11 |
| (2,246) | 1:150:A:ILE:HG12 | 1:150:A:ILE:H | 2 | 0.11 | 0.01 | 0.11 |
| (2,1042) | 1:149:A:ILE:HA | 1:149:A:ILE:HG12 | 2 | 0.11 | 0.01 | 0.11 |
| (2,1201) | 1:29:A:LEU:HD22 | 1:29:A:LEU:HD12 | 2 | 0.11 | 0.0 | 0.11 |
| (2,1201) | 1:29:A:LEU:HD21 | 1:29:A:LEU:HD12 | 2 | 0.11 | 0.0 | 0.11 |
| (2,2030) | 1:54:A:LYS:HB3 | 1:28:A:PHE:HD1 | 2 | 0.11 | 0.0 | 0.11 |
| (2,2145) | 1:33:A:VAL:HB | 1:123:A:GLU:HA | 2 | 0.11 | 0.01 | 0.11 |
| (2,2543) | 1:85:A:SER:HA | 1:87:A:VAL:H | 2 | 0.11 | 0.0 | 0.11 |
| (2,2716) | 1:35:A:ASN:HD22 | 1:35:A:ASN:HA | 2 | 0.11 | 0.01 | 0.11 |
| (2,3579) | 1:38:A:THR:H | 1:39:A:VAL:HG22 | 2 | 0.11 | 0.0 | 0.11 |
| (2,3579) | 1:38:A:THR:H | 1:39:A:VAL:HG21 | 2 | 0.11 | 0.0 | 0.11 |
| (2,3910) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HA | 2 | 0.11 | 0.0 | 0.11 |
| (2,1375) | 1:96:A:ALA:HB1 | 1:98:A:LEU:H | 2 | 0.11 | 0.0 | 0.11 |
| (2,1375) | 1:96:A:ALA:HB3 | 1:98:A:LEU:H | 2 | 0.11 | 0.0 | 0.11 |
| (2,1589) | 1:141:A:LEU:HB2 | 1:141:A:LEU:HD12 | 2 | 0.11 | 0.0 | 0.11 |
| (2,1589) | 1:141:A:LEU:HB2 | 1:141:A:LEU:HD13 | 2 | 0.11 | 0.0 | 0.11 |
| (2,4769) | 1:9:A:ARG:H | 1:9:A:ARG:HG2 | 2 | 0.11 | 0.0 | 0.11 |
| (2,406) | 1:87:A:VAL:HB | 1:87:A:VAL:HG22 | 2 | 0.1 | 0.0 | 0.1 |
| (2,406) | 1:87:A:VAL:HB | 1:87:A:VAL:HG21 | 2 | 0.1 | 0.0 | 0.1 |
| (2,3952) | 1:114:A:PHE:HB2 | 1:117:A:GLU:HB2 | 2 | 0.1 | 0.0 | 0.1 |

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

## 9.5 All violated distance restraints (i)

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

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




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

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

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 6 | 3.92 |
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 7 | 3.35 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 16 | 3.24 |
| (2,4398) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HD2 | 6 | 3.21 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD12 | 16 | 2.84 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD12 | 7 | 2.72 |
| (2,2211) | 1:77:A:LEU:HD13 | 1:125:A:PHE:HE2 | 7 | 2.71 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 9 | 2.71 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 13 | 2.68 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 5 | 2.64 |
| (2,4370) | 1:62:A:LEU:HD11 | 1:141:A:LEU:HB3 | 14 | 2.62 |
| (2,4504) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HB3 | 16 | 2.61 |
| (2,3252) | 1:62:A:LEU:HD21 | 1:64:A:GLU:H | 6 | 2.56 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD12 | 1 | 2.53 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 8 | 2.53 |
| (2,4370) | 1:62:A:LEU:HD21 | 1:141:A:LEU:HB3 | 11 | 2.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 3 | 2.51 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 15 | 2.5 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 17 | 2.5 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 16 | 2.49 |
| (2,2211) | 1:77:A:LEU:HD13 | 1:125:A:PHE:HE2 | 16 | 2.47 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 1 | 2.43 |
| (2,1984) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HG2 | 6 | 2.42 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 18 | 2.42 |
| (2,4370) | 1:62:A:LEU:HD12 | 1:141:A:LEU:HB3 | 2 | 2.41 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 13 | 2.39 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD12 | 7 | 2.39 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 12 | 2.39 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 11 | 2.39 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 5 | 2.36 |
| (2,4504) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HB3 | 7 | 2.35 |
| (2,4370) | 1:62:A:LEU:HD23 | 1:141:A:LEU:HB3 | 6 | 2.35 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 14 | 2.31 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 17 | 2.3 |
| (2,4522) | 1:160:A:ARG:HD3 | 1:57:A:LEU:HD22 | 4 | 2.29 |
| (2,4370) | 1:62:A:LEU:HD23 | 1:141:A:LEU:HB3 | 4 | 2.28 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 17 | 2.28 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD11 | 15 | 2.28 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 7 | 2.27 |
| (2,4370) | 1:62:A:LEU:HD11 | 1:148:A:GLU:HB2 | 15 | 2.26 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 19 | 2.24 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 17 | 2.24 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 10 | 2.23 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 2 | 2.23 |
| (2,1098) | 1:11:A:LEU:HA | 1:11:A:LEU:HD13 | 8 | 2.22 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD11 | 14 | 2.21 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 18 | 2.21 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 18 | 2.2 |
| (2,3269) | 1:65:A:SER:H | 1:62:A:LEU:HD23 | 6 | 2.2 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD13 | 16 | 2.2 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 16 | 2.19 |
| (2,1068) | 1:159:A:ILE:HD12 | 1:145:A:LEU:HD23 | 8 | 2.16 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD11 | 14 | 2.15 |
| (2,4370) | 1:62:A:LEU:HD13 | 1:141:A:LEU:HB3 | 9 | 2.14 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 18 | 2.14 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD22 | 16 | 2.14 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD23 | 20 | 2.14 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 4 | 2.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 12 | 2.13 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 20 | 2.12 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE3 | 7 | 2.11 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD21 | 2 | 2.09 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 10 | 2.09 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 2 | 2.08 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 17 | 2.08 |
| (2,4146) | 1:64:A:GLU:HG3 | 1:54:A:LYS:HG2 | 3 | 2.07 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD21 | 3 | 2.07 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD22 | 6 | 2.07 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 14 | 2.07 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 8 | 2.07 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD21 | 5 | 2.06 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 11 | 2.06 |
| (2,4209) | 1:61:A:LYS:HE3 | 1:62:A:LEU:HD13 | 6 | 2.05 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 17 | 2.04 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 14 | 2.04 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 8 | 2.04 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 18 | 2.04 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 17 | 2.04 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:146:A:GLN:HG2 | 15 | 2.03 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 12 | 2.03 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD22 | 15 | 2.03 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 16 | 2.03 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 3 | 2.03 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 1 | 2.03 |
| (2,1295) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HB2 | 7 | 2.03 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 9 | 2.03 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD13 | 2 | 2.02 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 17 | 2.02 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 4 | 2.02 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 10 | 2.02 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 15 | 2.02 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HB3 | 19 | 2.01 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD22 | 1 | 2.01 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 19 | 2.01 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD22 | 10 | 2.0 |
| (2,1982) | 1:61:A:LYS:HB3 | 1:62:A:LEU:HD12 | 6 | 2.0 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 7 | 2.0 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 11 | 2.0 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 8 | 1.99 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 18 | 1.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1953) | 1:145:A:LEU:HD23 | 1:141:A:LEU:HB3 | 20 | 1.99 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 10 | 1.99 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 14 | 1.99 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 20 | 1.99 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 13 | 1.99 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD12 | 5 | 1.98 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD13 | 11 | 1.98 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 8 | 1.98 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 9 | 1.98 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 4 | 1.98 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 12 | 1.98 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 7 | 1.98 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD13 | 13 | 1.97 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD22 | 7 | 1.97 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 8 | 1.97 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 10 | 1.97 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 4 | 1.97 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 3 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 2 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 6 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 8 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 12 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 13 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 15 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 16 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 19 | 1.96 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 6 | 1.96 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 11 | 1.96 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 12 | 1.96 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 5 | 1.95 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 17 | 1.95 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 18 | 1.95 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 19 | 1.95 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG21 | 19 | 1.94 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD23 | 17 | 1.94 |
| (2,3769) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HD22 | 19 | 1.94 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 18 | 1.94 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD13 | 17 | 1.93 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 8 | 1.93 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 1 | 1.93 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 16 | 1.93 |
| (2,1295) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HB2 | 2 | 1.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 6 | 1.93 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 13 | 1.93 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 17 | 1.92 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD13 | 19 | 1.91 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD21 | 9 | 1.91 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD22 | 12 | 1.91 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 3 | 1.91 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 9 | 1.91 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 14 | 1.91 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD21 | 3 | 1.9 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD22 | 6 | 1.9 |
| (2,3769) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HD23 | 13 | 1.9 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 7 | 1.9 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 15 | 1.9 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HZ | 20 | 1.89 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:59:A:ILE:HD11 | 11 | 1.89 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 2 | 1.89 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 8 | 1.89 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 9 | 1.89 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 16 | 1.88 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD11 | 5 | 1.88 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 17 | 1.88 |
| (2,4086) | 1:51:A:ILE:HD12 | 1:73:A:ASP:HB3 | 2 | 1.88 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 14 | 1.88 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 13 | 1.88 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 17 | 1.88 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 16 | 1.88 |
| (2,1463) | 1:133:A:PRO:HD3 | 1:88:A:VAL:H | 1 | 1.88 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 11 | 1.88 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD23 | 20 | 1.87 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 3 | 1.87 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 2 | 1.87 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD1 | 11 | 1.86 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 5 | 1.86 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 7 | 1.86 |
| (2,1953) | 1:145:A:LEU:HD23 | 1:141:A:LEU:HB3 | 8 | 1.86 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 11 | 1.86 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 9 | 1.86 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 10 | 1.85 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG22 | 15 | 1.85 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD13 | 13 | 1.85 |
| (2,3769) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HD22 | 11 | 1.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 1 | 1.85 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 20 | 1.85 |
| (2,4370) | 1:62:A:LEU:HD23 | 1:141:A:LEU:HB3 | 5 | 1.84 |
| (2,4370) | 1:62:A:LEU:HD22 | 1:141:A:LEU:HB3 | 12 | 1.84 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 17 | 1.84 |
| (2,4562) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 7 | 1.83 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD22 | 19 | 1.83 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD11 | 4 | 1.83 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 4 | 1.83 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 16 | 1.83 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 7 | 1.83 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 7 | 1.83 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 15 | 1.82 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 14 | 1.82 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 14 | 1.82 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 18 | 1.82 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG21 | 3 | 1.82 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 17 | 1.82 |
| (2,1366) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HA | 18 | 1.82 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 12 | 1.81 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD13 | 3 | 1.81 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HZ | 15 | 1.81 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 5 | 1.81 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 7 | 1.81 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 20 | 1.81 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 8 | 1.81 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD21 | 10 | 1.8 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 8 | 1.8 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:59:A:ILE:HD13 | 8 | 1.8 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 4 | 1.8 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 14 | 1.8 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 16 | 1.8 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 20 | 1.8 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 14 | 1.79 |
| (2,4370) | 1:62:A:LEU:HD12 | 1:148:A:GLU:HB2 | 20 | 1.79 |
| (2,4365) | 1:145:A:LEU:HD23 | 1:146:A:GLN:HG3 | 3 | 1.79 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 5 | 1.79 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG22 | 9 | 1.79 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:141:A:LEU:HD13 | 17 | 1.79 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 20 | 1.79 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 14 | 1.79 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 1 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD13 | 5 | 1.78 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 16 | 1.78 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 15 | 1.78 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 19 | 1.78 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 9 | 1.78 |
| (2,1366) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HA | 13 | 1.78 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD11 | 15 | 1.77 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HB | 5 | 1.77 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 11 | 1.77 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 6 | 1.77 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD12 | 9 | 1.76 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 19 | 1.76 |
| (2,4370) | 1:62:A:LEU:HD11 | 1:148:A:GLU:HB2 | 10 | 1.76 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 19 | 1.76 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD11 | 3 | 1.76 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 11 | 1.76 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 13 | 1.76 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 12 | 1.76 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 9 | 1.76 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 5 | 1.76 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD22 | 16 | 1.75 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 13 | 1.75 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 16 | 1.75 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG22 | 1 | 1.75 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HG21 | 9 | 1.75 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HD13 | 1 | 1.75 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 17 | 1.75 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 19 | 1.75 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD2 | 13 | 1.74 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 11 | 1.74 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG23 | 10 | 1.74 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 6 | 1.74 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 1 | 1.74 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 7 | 1.74 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD12 | 18 | 1.73 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 13 | 1.73 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 4 | 1.73 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 12 | 1.73 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 7 | 1.73 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 4 | 1.73 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 19 | 1.73 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD13 | 11 | 1.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 8 | 1.72 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 9 | 1.72 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 5 | 1.72 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 13 | 1.72 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 1 | 1.72 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD21 | 8 | 1.71 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD12 | 12 | 1.71 |
| (2,4146) | 1:64:A:GLU:HG3 | 1:54:A:LYS:HG2 | 1 | 1.71 |
| (2,4086) | 1:51:A:ILE:HD12 | 1:73:A:ASP:HB3 | 7 | 1.71 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 18 | 1.71 |
| (2,1389) | 1:41:A:VAL:HG22 | 1:44:A:GLY:HA2 | 10 | 1.71 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 10 | 1.7 |
| (2,4522) | 1:99:A:ARG:HD3 | 1:101:A:LEU:HD22 | 20 | 1.7 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 1 | 1.7 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 7 | 1.7 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 14 | 1.7 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG23 | 20 | 1.7 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:141:A:LEU:HD11 | 19 | 1.7 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HB2 | 8 | 1.7 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 4 | 1.7 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 9 | 1.7 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 7 | 1.7 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 10 | 1.7 |
| (2,1389) | 1:41:A:VAL:HG23 | 1:44:A:GLY:HA2 | 13 | 1.7 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 2 | 1.69 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 18 | 1.69 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 10 | 1.69 |
| (2,2270) | 1:145:A:LEU:HD13 | 1:144:A:PHE:HD1 | 11 | 1.69 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 19 | 1.69 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 20 | 1.69 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD21 | 18 | 1.68 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG22 | 8 | 1.68 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 2 | 1.68 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 12 | 1.68 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HB | 4 | 1.68 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 6 | 1.68 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 10 | 1.68 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD23 | 13 | 1.67 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 4 | 1.67 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 6 | 1.67 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG21 | 4 | 1.67 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 1 | 1.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4011) | 1:139:A:ARG:HB2 | 1:59:A:ILE:HD13 | 20 | 1.67 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 10 | 1.67 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 16 | 1.67 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 5 | 1.67 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 17 | 1.67 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 16 | 1.67 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 20 | 1.67 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 12 | 1.67 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 19 | 1.66 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 15 | 1.66 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 10 | 1.66 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 17 | 1.66 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 13 | 1.66 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 1 | 1.66 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 5 | 1.66 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 6 | 1.66 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 18 | 1.66 |
| (2,1098) | 1:11:A:LEU:HA | 1:11:A:LEU:HD12 | 15 | 1.66 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 5 | 1.66 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 18 | 1.66 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 7 | 1.65 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG22 | 10 | 1.65 |
| (2,4340) | 1:144:A:PHE:HA | 1:126:A:ILE:HD12 | 17 | 1.65 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 2 | 1.65 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG23 | 5 | 1.65 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HD13 | 18 | 1.65 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 18 | 1.65 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 3 | 1.65 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD2 | 14 | 1.65 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 19 | 1.65 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 7 | 1.65 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 15 | 1.65 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 9 | 1.64 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD1 | 3 | 1.64 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 4 | 1.64 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 10 | 1.64 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 4 | 1.64 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 12 | 1.64 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG23 | 8 | 1.64 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 12 | 1.64 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 8 | 1.64 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 11 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 16 | 1.64 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 2 | 1.64 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 11 | 1.64 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 15 | 1.64 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 3 | 1.64 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 18 | 1.64 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 15 | 1.64 |
| (2,1389) | 1:41:A:VAL:HG21 | 1:44:A:GLY:HA2 | 3 | 1.64 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 6 | 1.64 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 6 | 1.64 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD1 | 14 | 1.63 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 3 | 1.63 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 5 | 1.63 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HB2 | 10 | 1.63 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 2 | 1.63 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 11 | 1.63 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 8 | 1.63 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 7 | 1.63 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 4 | 1.63 |
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 6 | 1.63 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 13 | 1.63 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 1 | 1.63 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 13 | 1.63 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 4 | 1.63 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 9 | 1.62 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD1 | 2 | 1.62 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:49:A:TYR:HD2 | 5 | 1.62 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 10 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 2 | 1.62 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 12 | 1.62 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 13 | 1.62 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 16 | 1.62 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 14 | 1.62 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG22 | 3 | 1.62 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 16 | 1.62 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 6 | 1.62 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG22 | 11 | 1.61 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HG23 | 3 | 1.61 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HB2 | 9 | 1.61 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 9 | 1.61 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 3 | 1.61 |
| (2,2680) | 1:139:A:ARG:HG2 | 1:155:A:THR:H | 13 | 1.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 1 | 1.61 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 8 | 1.61 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 17 | 1.61 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 17 | 1.61 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD2 | 10 | 1.6 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 19 | 1.6 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 12 | 1.6 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD12 | 18 | 1.6 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 3 | 1.6 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 1 | 1.6 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HB | 14 | 1.6 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 10 | 1.6 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 13 | 1.6 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 15 | 1.6 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 5 | 1.59 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 5 | 1.59 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 10 | 1.59 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 16 | 1.59 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 3 | 1.59 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 7 | 1.59 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 4 | 1.59 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD23 | 10 | 1.59 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 18 | 1.59 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 10 | 1.59 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 8 | 1.58 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 3 | 1.58 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 11 | 1.58 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD13 | 2 | 1.58 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE3 | 15 | 1.58 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HB2 | 3 | 1.58 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HB2 | 18 | 1.58 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 12 | 1.58 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 2 | 1.58 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 19 | 1.58 |
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 10 | 1.58 |
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 16 | 1.58 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 20 | 1.58 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 15 | 1.58 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 13 | 1.58 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 16 | 1.58 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 10 | 1.58 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 4 | 1.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 17 | 1.57 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:128:A:LYS:H | 7 | 1.57 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD11 | 6 | 1.57 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 1 | 1.57 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 15 | 1.57 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 14 | 1.57 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 20 | 1.57 |
| (2,1502) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HB3 | 14 | 1.57 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 12 | 1.57 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 17 | 1.57 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD23 | 19 | 1.57 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:128:A:LYS:H | 16 | 1.56 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 13 | 1.56 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 12 | 1.56 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 17 | 1.56 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HB | 16 | 1.56 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG23 | 3 | 1.56 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 9 | 1.56 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 13 | 1.56 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG23 | 4 | 1.56 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 8 | 1.56 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD13 | 19 | 1.56 |
| (2,1502) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HB3 | 12 | 1.56 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 4 | 1.56 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 3 | 1.56 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 20 | 1.55 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 9 | 1.55 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG22 | 7 | 1.55 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 1 | 1.55 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 1 | 1.55 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 9 | 1.55 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 8 | 1.55 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HB | 15 | 1.55 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 6 | 1.55 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 15 | 1.55 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 5 | 1.55 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 14 | 1.55 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 16 | 1.55 |
| (2,4505) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HA | 5 | 1.54 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG21 | 14 | 1.54 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 11 | 1.54 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 1 | 1.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 16 | 1.54 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 5 | 1.54 |
| (2,1502) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HB3 | 9 | 1.54 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 18 | 1.54 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 5 | 1.53 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 3 | 1.53 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 9 | 1.53 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 17 | 1.53 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 13 | 1.53 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 10 | 1.53 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG21 | 16 | 1.53 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 10 | 1.53 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 1 | 1.53 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 18 | 1.53 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 6 | 1.53 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 13 | 1.53 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 7 | 1.52 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 14 | 1.52 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 6 | 1.52 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 1 | 1.52 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 18 | 1.52 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HB2 | 6 | 1.52 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 9 | 1.52 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 4 | 1.52 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 12 | 1.52 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 8 | 1.52 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 11 | 1.52 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 15 | 1.51 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:49:A:TYR:HD1 | 19 | 1.51 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD11 | 11 | 1.51 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:114:A:PHE:H | 7 | 1.51 |
| (2,4011) | 1:139:A:ARG:HB3 | 1:141:A:LEU:HD13 | 9 | 1.51 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD2 | 15 | 1.51 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD13 | 7 | 1.51 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 2 | 1.51 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 14 | 1.51 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 18 | 1.51 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 10 | 1.51 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 13 | 1.5 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 19 | 1.5 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 17 | 1.5 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 10 | 1.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 11 | 1.5 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 15 | 1.5 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:138:A:GLU:H | 19 | 1.5 |
| (2,4146) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HG2 | 20 | 1.5 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD12 | 10 | 1.5 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 12 | 1.5 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 15 | 1.5 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 19 | 1.5 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 20 | 1.5 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 6 | 1.49 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 17 | 1.49 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 6 | 1.49 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 19 | 1.49 |
| (2,2270) | 1:145:A:LEU:HD13 | 1:144:A:PHE:HD1 | 5 | 1.49 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 6 | 1.49 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE3 | 15 | 1.49 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 12 | 1.49 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 11 | 1.48 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 16 | 1.48 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 17 | 1.48 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD1 | 9 | 1.48 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 16 | 1.48 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 18 | 1.48 |
| (2,4365) | 1:145:A:LEU:HD23 | 1:146:A:GLN:HG3 | 11 | 1.48 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 1 | 1.48 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 9 | 1.48 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 5 | 1.48 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HG21 | 10 | 1.48 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HG21 | 19 | 1.48 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 17 | 1.48 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 7 | 1.48 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 13 | 1.48 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 17 | 1.48 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 10 | 1.48 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 7 | 1.48 |
| (2,4841) | 1:66:A:THR:H | 1:62:A:LEU:HG | 6 | 1.47 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 20 | 1.47 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 18 | 1.47 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 20 | 1.47 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 15 | 1.47 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 17 | 1.47 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 2 | 1.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 12 | 1.47 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 16 | 1.47 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 6 | 1.47 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 13 | 1.47 |
| (2,4056) | 1:29:A:LEU:HD23 | 1:129:A:VAL:HG21 | 17 | 1.47 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 2 | 1.47 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 20 | 1.47 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 10 | 1.47 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 8 | 1.47 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 11 | 1.47 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 12 | 1.47 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 7 | 1.47 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 3 | 1.47 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 19 | 1.46 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 10 | 1.46 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 11 | 1.46 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 20 | 1.46 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 9 | 1.46 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 10 | 1.46 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 10 | 1.46 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 19 | 1.46 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 16 | 1.46 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 13 | 1.46 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 19 | 1.46 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 20 | 1.46 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 13 | 1.45 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HD1 | 17 | 1.45 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 2 | 1.45 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 6 | 1.45 |
| (2,4365) | 1:145:A:LEU:HD21 | 1:146:A:GLN:HG3 | 19 | 1.45 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 14 | 1.45 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 14 | 1.45 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 3 | 1.45 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 7 | 1.45 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 7 | 1.45 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 3 | 1.45 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 20 | 1.45 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 9 | 1.45 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 13 | 1.45 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 3 | 1.45 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 4 | 1.45 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 5 | 1.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 20 | 1.45 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD13 | 16 | 1.45 |
| (2,1501) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HB2 | 1 | 1.45 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 7 | 1.45 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 4 | 1.45 |
| (2,1292) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HD23 | 20 | 1.45 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 15 | 1.45 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 6 | 1.44 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 15 | 1.44 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 17 | 1.44 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 12 | 1.44 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 11 | 1.44 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 2 | 1.44 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 9 | 1.44 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 7 | 1.44 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:138:A:GLU:H | 5 | 1.44 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 15 | 1.44 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 3 | 1.44 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 8 | 1.44 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 9 | 1.44 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 10 | 1.44 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 5 | 1.44 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 2 | 1.44 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 9 | 1.44 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 11 | 1.44 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 18 | 1.44 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 1 | 1.44 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 11 | 1.44 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD11 | 12 | 1.43 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 8 | 1.43 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 8 | 1.43 |
| (2,4365) | 1:145:A:LEU:HD23 | 1:146:A:GLN:HG3 | 17 | 1.43 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 8 | 1.43 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HG2 | 18 | 1.43 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 8 | 1.43 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG22 | 13 | 1.43 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG23 | 14 | 1.43 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 9 | 1.43 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 2 | 1.43 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 9 | 1.43 |
| (2,2283) | 1:156:A:PRO:HB3 | 1:155:A:THR:HG21 | 12 | 1.43 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 13 | 1.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 6 | 1.43 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 14 | 1.43 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 19 | 1.43 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 6 | 1.43 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 7 | 1.43 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 11 | 1.43 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 17 | 1.43 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD11 | 2 | 1.43 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 11 | 1.43 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 17 | 1.43 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 20 | 1.43 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 5 | 1.43 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 12 | 1.43 |
| (2,1045) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG12 | 15 | 1.43 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 4 | 1.43 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 13 | 1.43 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 16 | 1.42 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD1 | 4 | 1.42 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 5 | 1.42 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 7 | 1.42 |
| (2,4334) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD21 | 17 | 1.42 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 6 | 1.42 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 7 | 1.42 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 12 | 1.42 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 9 | 1.42 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 18 | 1.42 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 12 | 1.42 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 11 | 1.42 |
| (2,3767) | 1:53:A:VAL:HG21 | 1:57:A:LEU:HB2 | 11 | 1.42 |
| (2,2270) | 1:145:A:LEU:HD12 | 1:144:A:PHE:HD1 | 17 | 1.42 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 15 | 1.42 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 7 | 1.42 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 12 | 1.42 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 13 | 1.42 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 15 | 1.42 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 17 | 1.42 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 10 | 1.42 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 19 | 1.42 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 14 | 1.41 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD12 | 8 | 1.41 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD13 | 20 | 1.41 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 3 | 1.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4472) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HA | 16 | 1.41 |
| (2,4331) | 1:141:A:LEU:HD13 | 1:81:A:LEU:HB2 | 5 | 1.41 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 5 | 1.41 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 7 | 1.41 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:66:A:THR:HA | 16 | 1.41 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG23 | 6 | 1.41 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 5 | 1.41 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 17 | 1.41 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 8 | 1.41 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG21 | 15 | 1.41 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE3 | 7 | 1.41 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 17 | 1.41 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 1 | 1.41 |
| (2,1908) | 1:120:A:GLN:HA | 1:120:A:GLN:HE22 | 8 | 1.41 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 3 | 1.41 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 3 | 1.41 |
| (2,1594) | 1:77:A:LEU:HA | 1:77:A:LEU:HD21 | 7 | 1.41 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 10 | 1.41 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 14 | 1.41 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 19 | 1.41 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD1 | 15 | 1.4 |
| (2,4467) | 1:76:A:TRP:HA | 1:77:A:LEU:HB3 | 1 | 1.4 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 1 | 1.4 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 12 | 1.4 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 13 | 1.4 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 18 | 1.4 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 18 | 1.4 |
| (2,4011) | 1:139:A:ARG:HB2 | 1:141:A:LEU:HD13 | 7 | 1.4 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG23 | 20 | 1.4 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HB | 2 | 1.4 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG22 | 20 | 1.4 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 4 | 1.4 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD11 | 6 | 1.4 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 2 | 1.4 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 12 | 1.4 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 19 | 1.4 |
| (2,1594) | 1:77:A:LEU:HA | 1:77:A:LEU:HD22 | 16 | 1.4 |
| (2,870) | 1:115:A:ILE:HD13 | 1:36:A:PRO:HB3 | 19 | 1.4 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 11 | 1.4 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 9 | 1.4 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD11 | 17 | 1.39 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG23 | 2 | 1.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG22 | 5 | 1.39 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 13 | 1.39 |
| (2,4331) | 1:141:A:LEU:HD12 | 1:81:A:LEU:HB2 | 9 | 1.39 |
| (2,4331) | 1:141:A:LEU:HD11 | 1:81:A:LEU:HB2 | 16 | 1.39 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:81:A:LEU:HD21 | 16 | 1.39 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 4 | 1.39 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 16 | 1.39 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD13 | 17 | 1.39 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD3 | 17 | 1.39 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD13 | 5 | 1.39 |
| (2,3786) | 1:143:A:MET:HE1 | 1:149:A:ILE:HG22 | 7 | 1.39 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD11 | 11 | 1.39 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 18 | 1.39 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 16 | 1.39 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG23 | 8 | 1.39 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 6 | 1.38 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 4 | 1.38 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 17 | 1.38 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 4 | 1.38 |
| (2,3767) | 1:53:A:VAL:HG22 | 1:57:A:LEU:HB2 | 13 | 1.38 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG22 | 7 | 1.38 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD12 | 8 | 1.38 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 20 | 1.38 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 13 | 1.38 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 9 | 1.38 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 1 | 1.38 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 4 | 1.38 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 6 | 1.38 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 18 | 1.38 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 9 | 1.38 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG23 | 2 | 1.38 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 20 | 1.38 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG21 | 1 | 1.37 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 12 | 1.37 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD12 | 14 | 1.37 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 14 | 1.37 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD12 | 13 | 1.37 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:81:A:LEU:HD21 | 9 | 1.37 |
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 13 | 1.37 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 7 | 1.37 |
| (2,3767) | 1:53:A:VAL:HG23 | 1:57:A:LEU:HB2 | 20 | 1.37 |
| (2,1976) | 1:157:A:SER:HA | 1:158:A:LYS:HG2 | 9 | 1.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 20 | 1.37 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 17 | 1.37 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 19 | 1.37 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 9 | 1.37 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 2 | 1.37 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 11 | 1.36 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 2 | 1.36 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 13 | 1.36 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD13 | 6 | 1.36 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 11 | 1.36 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 5 | 1.36 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD1 | 7 | 1.36 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 6 | 1.36 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 13 | 1.36 |
| (2,4340) | 1:144:A:PHE:HA | 1:145:A:LEU:HD13 | 10 | 1.36 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD11 | 8 | 1.36 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 3 | 1.36 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 10 | 1.36 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 18 | 1.36 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 13 | 1.36 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 17 | 1.36 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 3 | 1.36 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 5 | 1.36 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD12 | 20 | 1.36 |
| (2,2270) | 1:145:A:LEU:HD12 | 1:144:A:PHE:HD1 | 3 | 1.36 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG22 | 9 | 1.36 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 7 | 1.36 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 13 | 1.36 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 18 | 1.36 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG21 | 9 | 1.36 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 16 | 1.36 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 5 | 1.36 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 16 | 1.36 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 3 | 1.35 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 18 | 1.35 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 5 | 1.35 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 8 | 1.35 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 13 | 1.35 |
| (2,4238) | 1:31:A:ILE:HG23 | 1:123:A:GLU:HB3 | 1 | 1.35 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 19 | 1.35 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 2 | 1.35 |
| (2,4190) | 1:77:A:LEU:HD22 | 1:80:A:GLU:HB2 | 5 | 1.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 4 | 1.35 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 19 | 1.35 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD22 | 5 | 1.35 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 2 | 1.35 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 7 | 1.35 |
| (2,3922) | 1:119:A:LYS:HE2 | 1:33:A:VAL:HG23 | 18 | 1.35 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 2 | 1.35 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 5 | 1.35 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 6 | 1.35 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 8 | 1.35 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 16 | 1.35 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 17 | 1.35 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 4 | 1.35 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 4 | 1.35 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 16 | 1.35 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 6 | 1.35 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 8 | 1.35 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 19 | 1.35 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 20 | 1.34 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 11 | 1.34 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD3 | 16 | 1.34 |
| (2,4345) | 1:145:A:LEU:HD12 | 1:141:A:LEU:HB3 | 7 | 1.34 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD13 | 15 | 1.34 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 2 | 1.34 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 11 | 1.34 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 19 | 1.34 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 14 | 1.34 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 6 | 1.34 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 2 | 1.34 |
| (2,3695) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 19 | 1.34 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 14 | 1.34 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 18 | 1.34 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 5 | 1.34 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 9 | 1.34 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 5 | 1.34 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 2 | 1.34 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 4 | 1.33 |
| (2,4453) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB3 | 8 | 1.33 |
| (2,4365) | 1:145:A:LEU:HD21 | 1:146:A:GLN:HG3 | 5 | 1.33 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:81:A:LEU:HD22 | 6 | 1.33 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG21 | 11 | 1.33 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 17 | 1.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 19 | 1.33 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 3 | 1.33 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 15 | 1.33 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 3 | 1.33 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 3 | 1.33 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 1 | 1.33 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 15 | 1.33 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 8 | 1.33 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 20 | 1.33 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 5 | 1.33 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 2 | 1.33 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 17 | 1.33 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 4 | 1.33 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 10 | 1.33 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 17 | 1.33 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 18 | 1.33 |
| (2,4611) | 1:80:A:GLU:H | 1:81:A:LEU:HD12 | 16 | 1.32 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 20 | 1.32 |
| (2,4456) | 1:52:A:ARG:HG2 | 1:51:A:ILE:HG21 | 9 | 1.32 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 19 | 1.32 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG23 | 3 | 1.32 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 7 | 1.32 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 8 | 1.32 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 11 | 1.32 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 14 | 1.32 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 7 | 1.32 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 15 | 1.32 |
| (2,4056) | 1:29:A:LEU:HD21 | 1:129:A:VAL:HG23 | 12 | 1.32 |
| (2,3922) | 1:119:A:LYS:HE2 | 1:33:A:VAL:HG22 | 19 | 1.32 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 14 | 1.32 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 18 | 1.32 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 10 | 1.32 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 14 | 1.32 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 7 | 1.32 |
| (2,1501) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HB2 | 4 | 1.32 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 19 | 1.32 |
| (2,4586) | 1:100:A:GLN:HG3 | 1:98:A:LEU:HD13 | 4 | 1.31 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 6 | 1.31 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 4 | 1.31 |
| (2,4200) | 1:160:A:ARG:HB2 | 1:160:A:ARG:HD2 | 20 | 1.31 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 2 | 1.31 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD13 | 16 | 1.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4086) | 1:51:A:ILE:HD12 | 1:73:A:ASP:HB3 | 20 | 1.31 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 14 | 1.31 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 14 | 1.31 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD12 | 13 | 1.31 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 16 | 1.31 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 19 | 1.31 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 10 | 1.31 |
| (2,1976) | 1:157:A:SER:HA | 1:158:A:LYS:HG2 | 19 | 1.31 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 12 | 1.31 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 7 | 1.31 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 17 | 1.31 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 11 | 1.31 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 16 | 1.31 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG23 | 3 | 1.31 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 7 | 1.31 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 17 | 1.31 |
| (2,435) | 1:40:A:GLY:HA2 | 1:45:A:ARG:HB3 | 14 | 1.31 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 14 | 1.3 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD1 | 12 | 1.3 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD2 | 18 | 1.3 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:49:A:TYR:HD1 | 20 | 1.3 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG23 | 2 | 1.3 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 12 | 1.3 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 1 | 1.3 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA3 | 10 | 1.3 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA3 | 12 | 1.3 |
| (2,3922) | 1:119:A:LYS:HE2 | 1:33:A:VAL:HG22 | 8 | 1.3 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG23 | 15 | 1.3 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG13 | 4 | 1.3 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 20 | 1.3 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG23 | 8 | 1.3 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 16 | 1.3 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 19 | 1.3 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD11 | 11 | 1.3 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 17 | 1.3 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 7 | 1.3 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 12 | 1.3 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 5 | 1.3 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 13 | 1.3 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 1 | 1.3 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 2 | 1.3 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 3 | 1.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 7 | 1.3 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 10 | 1.3 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 11 | 1.3 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 13 | 1.3 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD13 | 3 | 1.29 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 6 | 1.29 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG23 | 19 | 1.29 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 20 | 1.29 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD11 | 20 | 1.29 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 7 | 1.29 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG21 | 10 | 1.29 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 20 | 1.29 |
| (2,1501) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HB2 | 5 | 1.29 |
| (2,1292) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HD21 | 5 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 4 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 5 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 8 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 12 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 13 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 14 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 15 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 16 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 18 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 19 | 1.29 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 20 | 1.29 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 1 | 1.29 |
| (2,257) | 1:150:A:ILE:HD11 | 1:152:A:LYS:HE2 | 14 | 1.29 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 5 | 1.28 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 10 | 1.28 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 16 | 1.28 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 17 | 1.28 |
| (2,4453) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB3 | 15 | 1.28 |
| (2,4345) | 1:145:A:LEU:HD13 | 1:141:A:LEU:HB3 | 16 | 1.28 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD11 | 7 | 1.28 |
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD12 | 14 | 1.28 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:81:A:LEU:HD21 | 2 | 1.28 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 1 | 1.28 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 3 | 1.28 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 4 | 1.28 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 13 | 1.28 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 18 | 1.28 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 10 | 1.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD12 | 9 | 1.28 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 15 | 1.28 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 1 | 1.28 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 10 | 1.28 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 12 | 1.28 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 6 | 1.28 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 13 | 1.28 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG21 | 9 | 1.28 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG22 | 11 | 1.28 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 10 | 1.28 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 15 | 1.28 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 6 | 1.28 |
| (2,971) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HD2 | 9 | 1.28 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 19 | 1.28 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 7 | 1.27 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 8 | 1.27 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 1 | 1.27 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 15 | 1.27 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 5 | 1.27 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 4 | 1.27 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 6 | 1.27 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 17 | 1.27 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG22 | 5 | 1.27 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 12 | 1.27 |
| (2,4334) | 1:141:A:LEU:HD21 | 1:29:A:LEU:HD13 | 18 | 1.27 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 4 | 1.27 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 12 | 1.27 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 13 | 1.27 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 5 | 1.27 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 17 | 1.27 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 5 | 1.27 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 14 | 1.27 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 13 | 1.27 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 17 | 1.27 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 8 | 1.27 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 14 | 1.27 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 18 | 1.27 |
| (2,1867) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HB3 | 19 | 1.27 |
| (2,1292) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HD23 | 16 | 1.27 |
| (2,870) | 1:115:A:ILE:HD13 | 1:36:A:PRO:HB3 | 14 | 1.27 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 5 | 1.27 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 16 | 1.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 3 | 1.26 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 4 | 1.26 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 4 | 1.26 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 6 | 1.26 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 20 | 1.26 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD13 | 18 | 1.26 |
| (2,4530) | 1:33:A:VAL:HG13 | 1:49:A:TYR:HD2 | 6 | 1.26 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG22 | 1 | 1.26 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 14 | 1.26 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 19 | 1.26 |
| (2,4238) | 1:31:A:ILE:HG21 | 1:123:A:GLU:HB3 | 3 | 1.26 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 9 | 1.26 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 18 | 1.26 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE2 | 7 | 1.26 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 5 | 1.26 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 7 | 1.26 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 17 | 1.26 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 20 | 1.26 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 6 | 1.26 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 12 | 1.26 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 18 | 1.26 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 4 | 1.26 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA3 | 16 | 1.26 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 1 | 1.26 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 13 | 1.26 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 9 | 1.26 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 12 | 1.26 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 16 | 1.26 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG21 | 2 | 1.26 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 11 | 1.26 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 15 | 1.26 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 12 | 1.26 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 20 | 1.26 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 16 | 1.26 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 16 | 1.26 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 18 | 1.26 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 11 | 1.26 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 10 | 1.26 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 4 | 1.25 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 11 | 1.25 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 2 | 1.25 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 10 | 1.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 13 | 1.25 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 14 | 1.25 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG22 | 10 | 1.25 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 9 | 1.25 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE2 | 15 | 1.25 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 2 | 1.25 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 6 | 1.25 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 10 | 1.25 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 13 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 3 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 18 | 1.25 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:115:A:ILE:HA | 20 | 1.25 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 11 | 1.25 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 16 | 1.25 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 19 | 1.25 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 2 | 1.25 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 3 | 1.25 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 8 | 1.25 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 17 | 1.25 |
| (2,3827) | 1:61:A:LYS:HE2 | 1:61:A:LYS:HG2 | 20 | 1.25 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 15 | 1.25 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 1 | 1.25 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 7 | 1.25 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 14 | 1.25 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 9 | 1.25 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 7 | 1.25 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 8 | 1.24 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 16 | 1.24 |
| (2,4770) | 1:10:A:ARG:H | 1:11:A:LEU:HB3 | 12 | 1.24 |
| (2,4710) | 1:60:A:PHE:H | 1:58:A:PRO:HB3 | 10 | 1.24 |
| (2,4648) | 1:150:A:ILE:HD13 | 1:145:A:LEU:H | 2 | 1.24 |
| (2,4611) | 1:80:A:GLU:H | 1:81:A:LEU:HD13 | 7 | 1.24 |
| (2,4561) | 1:122:A:LEU:HB3 | 1:118:A:ARG:HG3 | 20 | 1.24 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 4 | 1.24 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 15 | 1.24 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:81:A:LEU:HD22 | 13 | 1.24 |
| (2,4238) | 1:31:A:ILE:HG21 | 1:123:A:GLU:HB3 | 8 | 1.24 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 11 | 1.24 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 14 | 1.24 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 1 | 1.24 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:131:A:GLY:HA3 | 2 | 1.24 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 19 | 1.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA3 | 8 | 1.24 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 14 | 1.24 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 15 | 1.24 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 6 | 1.24 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG13 | 5 | 1.24 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 10 | 1.24 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 18 | 1.24 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 2 | 1.24 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 20 | 1.24 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD21 | 10 | 1.24 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 10 | 1.24 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 13 | 1.24 |
| (2,1295) | 1:51:A:ILE:HD11 | 1:122:A:LEU:HB2 | 15 | 1.24 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 7 | 1.24 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 3 | 1.24 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 16 | 1.24 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 7 | 1.23 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 12 | 1.23 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 12 | 1.23 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 2 | 1.23 |
| (2,4537) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HD23 | 7 | 1.23 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 9 | 1.23 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 20 | 1.23 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 15 | 1.23 |
| (2,4365) | 1:145:A:LEU:HD21 | 1:146:A:GLN:HG3 | 13 | 1.23 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 8 | 1.23 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 18 | 1.23 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:138:A:GLU:H | 11 | 1.23 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 6 | 1.23 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 12 | 1.23 |
| (2,3748) | 1:0:A:GLY:HA3 | 1:1:A:THR:HG21 | 12 | 1.23 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 19 | 1.23 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 17 | 1.23 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 3 | 1.23 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG21 | 1 | 1.23 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG21 | 4 | 1.23 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 2 | 1.23 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 19 | 1.23 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 18 | 1.23 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 6 | 1.23 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 9 | 1.23 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 12 | 1.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 14 | 1.23 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG11 | 10 | 1.23 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 7 | 1.23 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 4 | 1.23 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 12 | 1.23 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 14 | 1.22 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 18 | 1.22 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 9 | 1.22 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 17 | 1.22 |
| (2,4648) | 1:150:A:ILE:HD11 | 1:145:A:LEU:H | 5 | 1.22 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 3 | 1.22 |
| (2,4472) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HA | 7 | 1.22 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG22 | 12 | 1.22 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 15 | 1.22 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 9 | 1.22 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 12 | 1.22 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 20 | 1.22 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 10 | 1.22 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 5 | 1.22 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 1 | 1.22 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 15 | 1.22 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 16 | 1.22 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 19 | 1.22 |
| (2,4153) | 1:57:A:LEU:HD21 | 1:24:A:PRO:HB2 | 7 | 1.22 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 14 | 1.22 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 11 | 1.22 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA2 | 19 | 1.22 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 16 | 1.22 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD12 | 13 | 1.22 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD11 | 3 | 1.22 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 4 | 1.22 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 14 | 1.22 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 17 | 1.22 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 5 | 1.22 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 11 | 1.22 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 10 | 1.22 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 15 | 1.22 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 16 | 1.22 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 17 | 1.22 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 12 | 1.22 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 20 | 1.22 |
| (2,4984) | 1:147:A:ASP:H | 1:143:A:MET:HB2 | 18 | 1.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 4 | 1.21 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 11 | 1.21 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 17 | 1.21 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG23 | 5 | 1.21 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 13 | 1.21 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 18 | 1.21 |
| (2,4185) | 1:77:A:LEU:HD21 | 1:138:A:GLU:H | 20 | 1.21 |
| (2,4180) | 1:141:A:LEU:HD11 | 1:154:A:TYR:HE2 | 9 | 1.21 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 3 | 1.21 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 12 | 1.21 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD22 | 16 | 1.21 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA2 | 1 | 1.21 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 16 | 1.21 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 16 | 1.21 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 8 | 1.21 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 15 | 1.21 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG22 | 8 | 1.21 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG22 | 18 | 1.21 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 5 | 1.21 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 2 | 1.21 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 2 | 1.21 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 3 | 1.21 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 6 | 1.21 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 7 | 1.21 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 8 | 1.21 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD21 | 3 | 1.21 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 19 | 1.21 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 9 | 1.21 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 15 | 1.21 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 15 | 1.2 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 19 | 1.2 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 14 | 1.2 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 17 | 1.2 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG23 | 17 | 1.2 |
| (2,4238) | 1:31:A:ILE:HG21 | 1:123:A:GLU:HB3 | 6 | 1.2 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 4 | 1.2 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 16 | 1.2 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:131:A:GLY:HA3 | 3 | 1.2 |
| (2,4086) | 1:51:A:ILE:HD11 | 1:73:A:ASP:HB3 | 4 | 1.2 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 15 | 1.2 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 12 | 1.2 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 7 | 1.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3709) | 1:92:A:LEU:HD12 | 1:74:A:PHE:HA | 12 | 1.2 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:74:A:PHE:HA | 17 | 1.2 |
| (2,3706) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 17 | 1.2 |
| (2,3706) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 18 | 1.2 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 7 | 1.2 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 13 | 1.2 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD13 | 2 | 1.2 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD11 | 13 | 1.2 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 8 | 1.2 |
| (2,1976) | 1:157:A:SER:HA | 1:158:A:LYS:HG2 | 5 | 1.2 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 3 | 1.2 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 12 | 1.2 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 11 | 1.2 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 10 | 1.2 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 1 | 1.2 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 5 | 1.2 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 17 | 1.2 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 6 | 1.2 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 10 | 1.2 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 2 | 1.19 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 3 | 1.19 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 9 | 1.19 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 10 | 1.19 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 7 | 1.19 |
| (2,4530) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HD2 | 8 | 1.19 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 12 | 1.19 |
| (2,4453) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB3 | 3 | 1.19 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 2 | 1.19 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 13 | 1.19 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 3 | 1.19 |
| (2,4211) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HG2 | 9 | 1.19 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD12 | 15 | 1.19 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD3 | 14 | 1.19 |
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 16 | 1.19 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 2 | 1.19 |
| (2,3847) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HB2 | 19 | 1.19 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HG22 | 20 | 1.19 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:74:A:PHE:HA | 5 | 1.19 |
| (2,3695) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 7 | 1.19 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 7 | 1.19 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD12 | 4 | 1.19 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 1 | 1.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 6 | 1.19 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 4 | 1.19 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 20 | 1.19 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 7 | 1.19 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 4 | 1.19 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 18 | 1.19 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 6 | 1.19 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 12 | 1.19 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 8 | 1.19 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 15 | 1.19 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 1 | 1.18 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 5 | 1.18 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 13 | 1.18 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 15 | 1.18 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 18 | 1.18 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 12 | 1.18 |
| (2,4426) | 1:18:A:LEU:HA | 1:19:A:ASN:HB2 | 7 | 1.18 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 8 | 1.18 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 9 | 1.18 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 12 | 1.18 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 12 | 1.18 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 20 | 1.18 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 20 | 1.18 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD3 | 2 | 1.18 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 20 | 1.18 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 15 | 1.18 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 14 | 1.18 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 19 | 1.18 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 15 | 1.18 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 17 | 1.18 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 6 | 1.18 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB2 | 15 | 1.18 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG21 | 15 | 1.18 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 12 | 1.18 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 2 | 1.18 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 4 | 1.18 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 16 | 1.18 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 9 | 1.18 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 12 | 1.18 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 3 | 1.18 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 4 | 1.18 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 15 | 1.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 20 | 1.18 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 13 | 1.18 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 18 | 1.18 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 13 | 1.18 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 4 | 1.18 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 13 | 1.18 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 13 | 1.17 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD1 | 19 | 1.17 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 16 | 1.17 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 3 | 1.17 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG21 | 6 | 1.17 |
| (2,4770) | 1:10:A:ARG:H | 1:11:A:LEU:HB3 | 6 | 1.17 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 2 | 1.17 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 12 | 1.17 |
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD13 | 5 | 1.17 |
| (2,4334) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD21 | 6 | 1.17 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 3 | 1.17 |
| (2,4238) | 1:31:A:ILE:HG23 | 1:123:A:GLU:HB3 | 20 | 1.17 |
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 20 | 1.17 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 2 | 1.17 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HE2 | 5 | 1.17 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 5 | 1.17 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 6 | 1.17 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 5 | 1.17 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 4 | 1.17 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 1 | 1.17 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 14 | 1.17 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 16 | 1.17 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 14 | 1.17 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 6 | 1.17 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 9 | 1.17 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 5 | 1.17 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 2 | 1.17 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 11 | 1.17 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 1 | 1.16 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG23 | 18 | 1.16 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 15 | 1.16 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 8 | 1.16 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 11 | 1.16 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD13 | 10 | 1.16 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 7 | 1.16 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG22 | 20 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 11 | 1.16 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 11 | 1.16 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 18 | 1.16 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 9 | 1.16 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 6 | 1.16 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 11 | 1.16 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 14 | 1.16 |
| (2,3761) | 1:53:A:VAL:HG23 | 1:28:A:PHE:HZ | 18 | 1.16 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 16 | 1.16 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 12 | 1.16 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 17 | 1.16 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD13 | 11 | 1.16 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 2 | 1.16 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 13 | 1.16 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 3 | 1.16 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 8 | 1.16 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 15 | 1.16 |
| (2,1867) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HB3 | 20 | 1.16 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 6 | 1.16 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 17 | 1.16 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 14 | 1.16 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 10 | 1.16 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 9 | 1.16 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 18 | 1.16 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 1 | 1.16 |
| (2,4926) | 1:137:A:ASN:HD22 | 1:159:A:ILE:HG22 | 2 | 1.15 |
| (2,4888) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HA | 18 | 1.15 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HB2 | 5 | 1.15 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 9 | 1.15 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 10 | 1.15 |
| (2,4453) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB3 | 1 | 1.15 |
| (2,4453) | 1:52:A:ARG:HB3 | 1:51:A:ILE:HG21 | 9 | 1.15 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 13 | 1.15 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 17 | 1.15 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:131:A:GLY:HA3 | 10 | 1.15 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:27:A:ASN:HB3 | 13 | 1.15 |
| (2,4056) | 1:29:A:LEU:HD22 | 1:129:A:VAL:HG22 | 16 | 1.15 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 5 | 1.15 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 12 | 1.15 |
| (2,3761) | 1:53:A:VAL:HG23 | 1:28:A:PHE:HZ | 3 | 1.15 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 5 | 1.15 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 15 | 1.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 15 | 1.15 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG21 | 8 | 1.15 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 1 | 1.15 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 11 | 1.15 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 13 | 1.15 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 18 | 1.15 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 2 | 1.15 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 2 | 1.15 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 7 | 1.15 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 9 | 1.15 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 12 | 1.15 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG22 | 20 | 1.15 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 4 | 1.15 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 1 | 1.14 |
| (2,4238) | 1:31:A:ILE:HG21 | 1:123:A:GLU:HB3 | 15 | 1.14 |
| (2,4180) | 1:141:A:LEU:HD12 | 1:154:A:TYR:HE2 | 12 | 1.14 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:136:A:GLN:HA | 9 | 1.14 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 10 | 1.14 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 17 | 1.14 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 3 | 1.14 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 15 | 1.14 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 8 | 1.14 |
| (2,3754) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 10 | 1.14 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 8 | 1.14 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 6 | 1.14 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD23 | 20 | 1.14 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 11 | 1.14 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 19 | 1.14 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 16 | 1.14 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 8 | 1.14 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 11 | 1.14 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 6 | 1.14 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE1 | 18 | 1.14 |
| (2,1068) | 1:159:A:ILE:HD13 | 1:145:A:LEU:HD22 | 5 | 1.14 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD22 | 13 | 1.14 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 20 | 1.14 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 3 | 1.14 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 17 | 1.14 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 17 | 1.14 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 20 | 1.14 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 14 | 1.13 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG23 | 14 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 6 | 1.13 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 1 | 1.13 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 4 | 1.13 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 18 | 1.13 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 9 | 1.13 |
| (2,4467) | 1:76:A:TRP:HA | 1:80:A:GLU:HB3 | 18 | 1.13 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE3 | 1 | 1.13 |
| (2,4453) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB3 | 6 | 1.13 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG22 | 18 | 1.13 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 20 | 1.13 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 14 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG22 | 1 | 1.13 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 5 | 1.13 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 8 | 1.13 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD3 | 4 | 1.13 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 8 | 1.13 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 14 | 1.13 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 15 | 1.13 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:54:A:LYS:HB3 | 18 | 1.13 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 3 | 1.13 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 4 | 1.13 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG21 | 7 | 1.13 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 13 | 1.13 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE3 | 5 | 1.13 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 18 | 1.13 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 9 | 1.13 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 11 | 1.13 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 12 | 1.13 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 5 | 1.13 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 1 | 1.13 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 20 | 1.13 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 15 | 1.13 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 8 | 1.13 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 8 | 1.13 |
| (2,1592) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HA | 7 | 1.13 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 15 | 1.13 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 3 | 1.13 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 1 | 1.13 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 3 | 1.13 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 10 | 1.13 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 15 | 1.13 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 5 | 1.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 3 | 1.13 |
| (2,1068) | 1:159:A:ILE:HD11 | 1:145:A:LEU:HD21 | 17 | 1.13 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 13 | 1.13 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 5 | 1.13 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 1 | 1.13 |
| (2,4903) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD3 | 19 | 1.12 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 4 | 1.12 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 3 | 1.12 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 2 | 1.12 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD3 | 20 | 1.12 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 13 | 1.12 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 18 | 1.12 |
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD12 | 4 | 1.12 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG23 | 11 | 1.12 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 2 | 1.12 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 12 | 1.12 |
| (2,4185) | 1:77:A:LEU:HD23 | 1:138:A:GLU:H | 14 | 1.12 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 2 | 1.12 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD3 | 11 | 1.12 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 9 | 1.12 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 4 | 1.12 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 7 | 1.12 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 20 | 1.12 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 19 | 1.12 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 15 | 1.12 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 20 | 1.12 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 20 | 1.12 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 17 | 1.12 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 8 | 1.12 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 13 | 1.12 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 8 | 1.12 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG11 | 20 | 1.12 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 9 | 1.12 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 2 | 1.12 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 20 | 1.12 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 6 | 1.12 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 10 | 1.12 |
| (2,1517) | 1:29:A:LEU:HB3 | 1:57:A:LEU:HD12 | 9 | 1.12 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 17 | 1.12 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 3 | 1.12 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 2 | 1.12 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 3 | 1.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 11 | 1.12 |
| (2,430) | 1:23:A:GLY:HA3 | 1:24:A:PRO:HD3 | 14 | 1.12 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 17 | 1.11 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 4 | 1.11 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 2 | 1.11 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 12 | 1.11 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 17 | 1.11 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 4 | 1.11 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 13 | 1.11 |
| (2,4057) | 1:29:A:LEU:HD22 | 1:27:A:ASN:HB3 | 6 | 1.11 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 3 | 1.11 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD21 | 2 | 1.11 |
| (2,3961) | 1:109:A:ILE:HD13 | 1:108:A:GLY:HA3 | 13 | 1.11 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 7 | 1.11 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 10 | 1.11 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG23 | 10 | 1.11 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 6 | 1.11 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 7 | 1.11 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HD11 | 8 | 1.11 |
| (2,3786) | 1:143:A:MET:HE3 | 1:141:A:LEU:HD11 | 17 | 1.11 |
| (2,3761) | 1:53:A:VAL:HG23 | 1:28:A:PHE:HZ | 10 | 1.11 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 13 | 1.11 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 3 | 1.11 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 9 | 1.11 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 17 | 1.11 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 19 | 1.11 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 3 | 1.11 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG22 | 2 | 1.11 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 10 | 1.11 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 12 | 1.11 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 13 | 1.11 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 13 | 1.11 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 3 | 1.11 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 14 | 1.11 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 11 | 1.11 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 1 | 1.11 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 13 | 1.11 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 16 | 1.11 |
| (2,4710) | 1:60:A:PHE:H | 1:58:A:PRO:HB3 | 14 | 1.1 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 12 | 1.1 |
| (2,4562) | 1:83:A:ARG:HD2 | 1:84:A:GLU:HG3 | 13 | 1.1 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 18 | 1.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 8 | 1.1 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD3 | 4 | 1.1 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 19 | 1.1 |
| (2,4330) | 1:141:A:LEU:HD23 | 1:59:A:ILE:HG22 | 3 | 1.1 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 4 | 1.1 |
| (2,4241) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HG21 | 12 | 1.1 |
| (2,4153) | 1:57:A:LEU:HD23 | 1:24:A:PRO:HB2 | 6 | 1.1 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 5 | 1.1 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 10 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 7 | 1.1 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 8 | 1.1 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 10 | 1.1 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA2 | 17 | 1.1 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 1 | 1.1 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 11 | 1.1 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 12 | 1.1 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 4 | 1.1 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 19 | 1.1 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:74:A:PHE:HA | 2 | 1.1 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 1 | 1.1 |
| (2,3251) | 1:62:A:LEU:HB3 | 1:64:A:GLU:H | 11 | 1.1 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 13 | 1.1 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 4 | 1.1 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG21 | 14 | 1.1 |
| (2,2151) | 1:122:A:LEU:HD21 | 1:33:A:VAL:HG11 | 5 | 1.1 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 14 | 1.1 |
| (2,1950) | 1:145:A:LEU:HD23 | 1:145:A:LEU:H | 20 | 1.1 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD12 | 1 | 1.1 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 13 | 1.1 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 15 | 1.1 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 8 | 1.1 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 1 | 1.1 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 7 | 1.1 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 14 | 1.1 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 15 | 1.1 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 12 | 1.1 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 14 | 1.1 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 19 | 1.1 |
| (2,257) | 1:150:A:ILE:HD11 | 1:152:A:LYS:HE2 | 11 | 1.1 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 7 | 1.09 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 4 | 1.09 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 7 | 1.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 8 | 1.09 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD22 | 5 | 1.09 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 16 | 1.09 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:136:A:GLN:HA | 17 | 1.09 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 3 | 1.09 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 20 | 1.09 |
| (2,4505) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HA | 19 | 1.09 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 4 | 1.09 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 19 | 1.09 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 4 | 1.09 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 7 | 1.09 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 16 | 1.09 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG21 | 9 | 1.09 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 2 | 1.09 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 11 | 1.09 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 13 | 1.09 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 13 | 1.09 |
| (2,3913) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 4 | 1.09 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 5 | 1.09 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 20 | 1.09 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG2 | 20 | 1.09 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 11 | 1.09 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 18 | 1.09 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 3 | 1.09 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 6 | 1.09 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 16 | 1.09 |
| (2,1950) | 1:145:A:LEU:HD23 | 1:145:A:LEU:H | 8 | 1.09 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD13 | 17 | 1.09 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD21 | 19 | 1.09 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 14 | 1.09 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 5 | 1.09 |
| (2,1323) | 1:150:A:ILE:HG21 | 1:149:A:ILE:HG21 | 19 | 1.09 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 1 | 1.09 |
| (2,4973) | 1:59:A:ILE:HD11 | 1:137:A:ASN:HD21 | 9 | 1.08 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HB2 | 13 | 1.08 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 13 | 1.08 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 9 | 1.08 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 17 | 1.08 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD2 | 6 | 1.08 |
| (2,4505) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HA | 4 | 1.08 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 7 | 1.08 |
| (2,4453) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB3 | 16 | 1.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4334) | 1:141:A:LEU:HD22 | 1:29:A:LEU:HD12 | 2 | 1.08 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 11 | 1.08 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 6 | 1.08 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 16 | 1.08 |
| (2,4185) | 1:77:A:LEU:HD22 | 1:138:A:GLU:H | 15 | 1.08 |
| (2,4049) | 1:29:A:LEU:HD12 | 1:54:A:LYS:HB3 | 5 | 1.08 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 16 | 1.08 |
| (2,3961) | 1:109:A:ILE:HD12 | 1:108:A:GLY:HA3 | 6 | 1.08 |
| (2,3803) | 1:129:A:VAL:HG22 | 1:125:A:PHE:HD2 | 4 | 1.08 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 11 | 1.08 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 9 | 1.08 |
| (2,3758) | 1:47:A:THR:HG22 | 1:37:A:GLN:HG3 | 9 | 1.08 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 1 | 1.08 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 8 | 1.08 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 9 | 1.08 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 14 | 1.08 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD2 | 9 | 1.08 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 7 | 1.08 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 11 | 1.08 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 6 | 1.08 |
| (2,1988) | 1:77:A:LEU:HD11 | 1:78:A:ARG:H | 16 | 1.08 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 6 | 1.08 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 2 | 1.08 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 1 | 1.08 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 16 | 1.08 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 20 | 1.08 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 12 | 1.08 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 13 | 1.08 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 16 | 1.08 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 6 | 1.08 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG22 | 6 | 1.08 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 5 | 1.07 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 12 | 1.07 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 10 | 1.07 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HB2 | 10 | 1.07 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 11 | 1.07 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 12 | 1.07 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 20 | 1.07 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 4 | 1.07 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 4 | 1.07 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 15 | 1.07 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 16 | 1.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4242) | 1:142:A:HIS:HA | 1:61:A:LYS:HB3 | 14 | 1.07 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 14 | 1.07 |
| (2,4180) | 1:141:A:LEU:HD13 | 1:154:A:TYR:HE2 | 7 | 1.07 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HB3 | 3 | 1.07 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 8 | 1.07 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 5 | 1.07 |
| (2,3913) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 7 | 1.07 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE3 | 9 | 1.07 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 8 | 1.07 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 3 | 1.07 |
| (2,3776) | 1:39:A:VAL:HG13 | 1:46:A:PHE:HZ | 1 | 1.07 |
| (2,3761) | 1:53:A:VAL:HG23 | 1:28:A:PHE:HZ | 13 | 1.07 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD13 | 7 | 1.07 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG23 | 18 | 1.07 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 7 | 1.07 |
| (2,1981) | 1:65:A:SER:HB3 | 1:62:A:LEU:HD23 | 6 | 1.07 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 14 | 1.07 |
| (2,1854) | 1:97:A:PHE:HB3 | 1:98:A:LEU:HA | 9 | 1.07 |
| (2,1592) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HA | 16 | 1.07 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 9 | 1.07 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 9 | 1.07 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 6 | 1.06 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 11 | 1.06 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 8 | 1.06 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG21 | 18 | 1.06 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 8 | 1.06 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 3 | 1.06 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 3 | 1.06 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 19 | 1.06 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 10 | 1.06 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 3 | 1.06 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 2 | 1.06 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 18 | 1.06 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 3 | 1.06 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 17 | 1.06 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 1 | 1.06 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 6 | 1.06 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 10 | 1.06 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 16 | 1.06 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 19 | 1.06 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 3 | 1.06 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 19 | 1.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4086) | 1:51:A:ILE:HD13 | 1:73:A:ASP:HB3 | 5 | 1.06 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 18 | 1.06 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 16 | 1.06 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 10 | 1.06 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG23 | 5 | 1.06 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD11 | 6 | 1.06 |
| (2,3768) | 1:53:A:VAL:HG22 | 1:29:A:LEU:HG | 14 | 1.06 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:74:A:PHE:HA | 11 | 1.06 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 19 | 1.06 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 8 | 1.06 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 14 | 1.06 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 19 | 1.06 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 1 | 1.06 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 2 | 1.06 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD23 | 8 | 1.06 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 10 | 1.06 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 19 | 1.06 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 20 | 1.06 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 11 | 1.06 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 17 | 1.06 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 6 | 1.06 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 7 | 1.06 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 14 | 1.06 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 15 | 1.06 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 16 | 1.06 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 10 | 1.06 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 5 | 1.06 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 8 | 1.06 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 10 | 1.06 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 1 | 1.06 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 19 | 1.06 |
| (2,4973) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HD21 | 5 | 1.05 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 1 | 1.05 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 2 | 1.05 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 16 | 1.05 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 17 | 1.05 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG21 | 11 | 1.05 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 9 | 1.05 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 14 | 1.05 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 17 | 1.05 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 16 | 1.05 |
| (2,4505) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HA | 2 | 1.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 10 | 1.05 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 5 | 1.05 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 6 | 1.05 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 18 | 1.05 |
| (2,4340) | 1:144:A:PHE:HA | 1:145:A:LEU:HD13 | 15 | 1.05 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG21 | 14 | 1.05 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 3 | 1.05 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 9 | 1.05 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 8 | 1.05 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG23 | 8 | 1.05 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:136:A:GLN:HA | 1 | 1.05 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 7 | 1.05 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 20 | 1.05 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 13 | 1.05 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 1 | 1.05 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 6 | 1.05 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 3 | 1.05 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD3 | 7 | 1.05 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 18 | 1.05 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 1 | 1.05 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG11 | 7 | 1.05 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:74:A:PHE:HA | 3 | 1.05 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 1 | 1.05 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG12 | 16 | 1.05 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 19 | 1.05 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 1 | 1.05 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 8 | 1.05 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG23 | 17 | 1.05 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 20 | 1.05 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 15 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 4 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 5 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 8 | 1.05 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 12 | 1.05 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 4 | 1.05 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 10 | 1.05 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG21 | 13 | 1.05 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 18 | 1.04 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:116:A:GLU:HB2 | 19 | 1.04 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 19 | 1.04 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 19 | 1.04 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 2 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 7 | 1.04 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 1 | 1.04 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD1 | 16 | 1.04 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD21 | 6 | 1.04 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD21 | 16 | 1.04 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 8 | 1.04 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 1 | 1.04 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 17 | 1.04 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 16 | 1.04 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG21 | 7 | 1.04 |
| (2,4283) | 1:86:A:LYS:HE3 | 1:86:A:LYS:HG2 | 4 | 1.04 |
| (2,4283) | 1:86:A:LYS:HE3 | 1:86:A:LYS:HG2 | 7 | 1.04 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 14 | 1.04 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 18 | 1.04 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 18 | 1.04 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 8 | 1.04 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 18 | 1.04 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 8 | 1.04 |
| (2,4057) | 1:29:A:LEU:HD22 | 1:27:A:ASN:HB3 | 17 | 1.04 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 3 | 1.04 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 8 | 1.04 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:110:A:PHE:HB3 | 18 | 1.04 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 1 | 1.04 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 10 | 1.04 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 10 | 1.04 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 12 | 1.04 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 10 | 1.04 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 20 | 1.04 |
| (2,1988) | 1:77:A:LEU:HD11 | 1:78:A:ARG:H | 7 | 1.04 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG22 | 4 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 1 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 3 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 10 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 13 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 17 | 1.04 |
| (2,1345) | 1:59:A:ILE:HG22 | 1:59:A:ILE:HG13 | 18 | 1.04 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG21 | 10 | 1.04 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 2 | 1.04 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 6 | 1.04 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 10 | 1.04 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 19 | 1.04 |
| (2,731) | 1:123:A:GLU:HB3 | 1:127:A:ASN:H | 19 | 1.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 1 | 1.04 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 5 | 1.04 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 15 | 1.04 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 17 | 1.04 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 14 | 1.04 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 4 | 1.03 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 1 | 1.03 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 6 | 1.03 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 10 | 1.03 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 2 | 1.03 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 10 | 1.03 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 20 | 1.03 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 7 | 1.03 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 4 | 1.03 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 13 | 1.03 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD12 | 16 | 1.03 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 19 | 1.03 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 5 | 1.03 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 11 | 1.03 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 11 | 1.03 |
| (2,4297) | 1:93:A:PRO:HD2 | 1:74:A:PHE:HD2 | 20 | 1.03 |
| (2,4283) | 1:86:A:LYS:HE3 | 1:86:A:LYS:HG2 | 3 | 1.03 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 1 | 1.03 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 5 | 1.03 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 3 | 1.03 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 1 | 1.03 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 1 | 1.03 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:53:A:VAL:HB | 19 | 1.03 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 15 | 1.03 |
| (2,3941) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB2 | 9 | 1.03 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 6 | 1.03 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 9 | 1.03 |
| (2,3803) | 1:129:A:VAL:HG22 | 1:125:A:PHE:HD2 | 17 | 1.03 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 14 | 1.03 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 5 | 1.03 |
| (2,3758) | 1:47:A:THR:HG22 | 1:37:A:GLN:HG3 | 15 | 1.03 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 16 | 1.03 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:74:A:PHE:HA | 4 | 1.03 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 5 | 1.03 |
| (2,3589) | 1:107:A:ASP:H | 1:106:A:ASP:HB3 | 20 | 1.03 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 12 | 1.03 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD11 | 18 | 1.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 5 | 1.03 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 7 | 1.03 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG23 | 7 | 1.03 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 1 | 1.03 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD22 | 8 | 1.03 |
| (2,1936) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD23 | 15 | 1.03 |
| (2,1573) | 1:64:A:GLU:HB2 | 1:54:A:LYS:HG2 | 1 | 1.03 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG21 | 11 | 1.03 |
| (2,1410) | 1:48:A:THR:HG21 | 1:39:A:VAL:HG23 | 14 | 1.03 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 1 | 1.03 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 10 | 1.03 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 11 | 1.03 |
| (2,1345) | 1:59:A:ILE:HG21 | 1:59:A:ILE:HG13 | 2 | 1.03 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 11 | 1.03 |
| (2,1345) | 1:59:A:ILE:HG23 | 1:59:A:ILE:HG13 | 19 | 1.03 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 11 | 1.03 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 12 | 1.03 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG11 | 20 | 1.03 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 3 | 1.03 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 15 | 1.03 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 19 | 1.03 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 12 | 1.03 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 20 | 1.03 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG22 | 5 | 1.03 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG22 | 17 | 1.03 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG21 | 19 | 1.03 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 4 | 1.02 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 3 | 1.02 |
| (2,4854) | 1:100:A:GLN:H | 1:101:A:LEU:HB3 | 7 | 1.02 |
| (2,4710) | 1:60:A:PHE:H | 1:58:A:PRO:HB3 | 20 | 1.02 |
| (2,4648) | 1:150:A:ILE:HD12 | 1:145:A:LEU:H | 4 | 1.02 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 7 | 1.02 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 15 | 1.02 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD12 | 16 | 1.02 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 18 | 1.02 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB3 | 17 | 1.02 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 9 | 1.02 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 18 | 1.02 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 20 | 1.02 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 16 | 1.02 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 11 | 1.02 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 18 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 19 | 1.02 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 12 | 1.02 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD12 | 14 | 1.02 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 19 | 1.02 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 12 | 1.02 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 19 | 1.02 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 12 | 1.02 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:145:A:LEU:HG | 4 | 1.02 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB3 | 20 | 1.02 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 2 | 1.02 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HA | 8 | 1.02 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:74:A:PHE:H | 4 | 1.02 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 12 | 1.02 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:82:A:GLU:HG3 | 4 | 1.02 |
| (2,3724) | 1:89:A:VAL:HG12 | 1:128:A:LYS:H | 3 | 1.02 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 8 | 1.02 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 4 | 1.02 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 18 | 1.02 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 5 | 1.02 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 12 | 1.02 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 8 | 1.02 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 5 | 1.02 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 13 | 1.02 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 11 | 1.02 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG21 | 16 | 1.02 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 14 | 1.02 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD11 | 5 | 1.02 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD11 | 11 | 1.02 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 17 | 1.02 |
| (2,1937) | 1:136:A:GLN:HB2 | 1:141:A:LEU:HD11 | 19 | 1.02 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 9 | 1.02 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 12 | 1.02 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG22 | 17 | 1.02 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 7 | 1.02 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 18 | 1.02 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 9 | 1.02 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 16 | 1.02 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 10 | 1.02 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 19 | 1.02 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 8 | 1.02 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 5 | 1.02 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 6 | 1.02 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 17 | 1.02 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 12 | 1.01 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 4 | 1.01 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 16 | 1.01 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 19 | 1.01 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 2 | 1.01 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 6 | 1.01 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:124:A:GLN:H | 14 | 1.01 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:136:A:GLN:HA | 18 | 1.01 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 19 | 1.01 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 18 | 1.01 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 4 | 1.01 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD12 | 15 | 1.01 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 2 | 1.01 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 6 | 1.01 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 8 | 1.01 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 13 | 1.01 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 15 | 1.01 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG21 | 14 | 1.01 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG22 | 16 | 1.01 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 13 | 1.01 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 4 | 1.01 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 13 | 1.01 |
| (2,3796) | 1:130:A:ALA:HB3 | 1:128:A:LYS:H | 5 | 1.01 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 10 | 1.01 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 12 | 1.01 |
| (2,3614) | 1:32:A:ASP:HB2 | 1:123:A:GLU:HB3 | 20 | 1.01 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 9 | 1.01 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 4 | 1.01 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 9 | 1.01 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG21 | 3 | 1.01 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG23 | 17 | 1.01 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 19 | 1.01 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 11 | 1.01 |
| (2,1867) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HB3 | 9 | 1.01 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 16 | 1.01 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 7 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 7 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 15 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 16 | 1.01 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 18 | 1.01 |
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 15 | 1.01 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 12 | 1.01 |
| (2,756) | 1:122:A:LEU:HD22 | 1:74:A:PHE:HD1 | 20 | 1.01 |
| (2,510) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HD13 | 12 | 1.01 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG22 | 14 | 1.01 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG23 | 18 | 1.01 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 1 | 1.0 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 19 | 1.0 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 3 | 1.0 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 7 | 1.0 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG23 | 11 | 1.0 |
| (2,4770) | 1:10:A:ARG:H | 1:11:A:LEU:HB3 | 9 | 1.0 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 6 | 1.0 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 20 | 1.0 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 5 | 1.0 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 3 | 1.0 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 1 | 1.0 |
| (2,4418) | 1:77:A:LEU:HD12 | 1:144:A:PHE:H | 5 | 1.0 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 8 | 1.0 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 12 | 1.0 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 2 | 1.0 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 11 | 1.0 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 20 | 1.0 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 18 | 1.0 |
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 6 | 1.0 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 11 | 1.0 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 16 | 1.0 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 6 | 1.0 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 12 | 1.0 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 20 | 1.0 |
| (2,4039) | 1:45:A:ARG:HA | 1:38:A:THR:HG23 | 4 | 1.0 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 19 | 1.0 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 18 | 1.0 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 18 | 1.0 |
| (2,3786) | 1:143:A:MET:HE1 | 1:149:A:ILE:HG22 | 15 | 1.0 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 4 | 1.0 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 2 | 1.0 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 13 | 1.0 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 11 | 1.0 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 19 | 1.0 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG21 | 14 | 1.0 |
| (2,1792) | 1:83:A:ARG:HD3 | 1:84:A:GLU:H | 15 | 1.0 |
| (2,1410) | 1:48:A:THR:HG21 | 1:39:A:VAL:HG22 | 19 | 1.0 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG22 | 2 | 1.0 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 20 | 1.0 |
| (2,1002) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB2 | 7 | 1.0 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 8 | 1.0 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 11 | 1.0 |
| (2,510) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HD12 | 19 | 1.0 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 7 | 1.0 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 13 | 1.0 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 4 | 0.99 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 15 | 0.99 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 12 | 0.99 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 9 | 0.99 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 3 | 0.99 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD22 | 19 | 0.99 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 16 | 0.99 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 19 | 0.99 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 6 | 0.99 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 10 | 0.99 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 3 | 0.99 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 2 | 0.99 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 19 | 0.99 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 1 | 0.99 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 10 | 0.99 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 4 | 0.99 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE3 | 19 | 0.99 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HD11 | 14 | 0.99 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 16 | 0.99 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 3 | 0.99 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:29:A:LEU:HG | 10 | 0.99 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 13 | 0.99 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG2 | 1 | 0.99 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 1 | 0.99 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 16 | 0.99 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 12 | 0.99 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 17 | 0.99 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 11 | 0.99 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 18 | 0.99 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 2 | 0.99 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 2 | 0.99 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 7 | 0.99 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 3 | 0.99 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 5 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 13 | 0.99 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 20 | 0.99 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 4 | 0.99 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 4 | 0.99 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 1 | 0.99 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 6 | 0.99 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 17 | 0.99 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 20 | 0.99 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 6 | 0.99 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD11 | 17 | 0.99 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 16 | 0.99 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 14 | 0.99 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 13 | 0.99 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG21 | 10 | 0.99 |
| (2,159) | 1:66:A:THR:HG23 | 1:67:A:VAL:HG22 | 20 | 0.99 |
| (2,4984) | 1:147:A:ASP:H | 1:148:A:GLU:HB2 | 6 | 0.98 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 2 | 0.98 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 16 | 0.98 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 9 | 0.98 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 12 | 0.98 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 17 | 0.98 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 19 | 0.98 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 17 | 0.98 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 10 | 0.98 |
| (2,4453) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB3 | 11 | 0.98 |
| (2,4453) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB3 | 20 | 0.98 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 17 | 0.98 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 1 | 0.98 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 10 | 0.98 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 12 | 0.98 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 13 | 0.98 |
| (2,4119) | 1:5:A:VAL:HG21 | 1:4:A:THR:HB | 14 | 0.98 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD3 | 5 | 0.98 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 8 | 0.98 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 5 | 0.98 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:109:A:ILE:H | 17 | 0.98 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG21 | 10 | 0.98 |
| (2,3941) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB2 | 15 | 0.98 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 17 | 0.98 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:109:A:ILE:HA | 17 | 0.98 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD3 | 17 | 0.98 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD12 | 16 | 0.98 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 1 | 0.98 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 17 | 0.98 |
| (2,3774) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HB3 | 7 | 0.98 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 11 | 0.98 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 15 | 0.98 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 19 | 0.98 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 11 | 0.98 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:74:A:PHE:HA | 15 | 0.98 |
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 15 | 0.98 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 6 | 0.98 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 17 | 0.98 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 10 | 0.98 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 15 | 0.98 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 11 | 0.98 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 10 | 0.98 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 3 | 0.98 |
| (2,2570) | 1:96:A:ALA:H | 1:95:A:LYS:HG3 | 14 | 0.98 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 1 | 0.98 |
| (2,2320) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HD1 | 18 | 0.98 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 13 | 0.98 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 14 | 0.98 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 5 | 0.98 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG23 | 8 | 0.98 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 19 | 0.98 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 7 | 0.98 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 10 | 0.98 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 2 | 0.98 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 5 | 0.98 |
| (2,997) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HB2 | 12 | 0.98 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 5 | 0.98 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 12 | 0.98 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 16 | 0.98 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG22 | 2 | 0.98 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 10 | 0.97 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 1 | 0.97 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 12 | 0.97 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 3 | 0.97 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 3 | 0.97 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 15 | 0.97 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 9 | 0.97 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 16 | 0.97 |
| (2,4663) | 1:154:A:TYR:H | 1:152:A:LYS:HG3 | 6 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG23 | 6 | 0.97 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD22 | 14 | 0.97 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 11 | 0.97 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 11 | 0.97 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 16 | 0.97 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 19 | 0.97 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 8 | 0.97 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 20 | 0.97 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 6 | 0.97 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 7 | 0.97 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 16 | 0.97 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 10 | 0.97 |
| (2,4314) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HD13 | 13 | 0.97 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 15 | 0.97 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 9 | 0.97 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 18 | 0.97 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:52:A:ARG:HD2 | 3 | 0.97 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:136:A:GLN:HA | 19 | 0.97 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 5 | 0.97 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 11 | 0.97 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 12 | 0.97 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 19 | 0.97 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 20 | 0.97 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 11 | 0.97 |
| (2,4049) | 1:29:A:LEU:HD13 | 1:54:A:LYS:HB3 | 17 | 0.97 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 3 | 0.97 |
| (2,3941) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB2 | 5 | 0.97 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 1 | 0.97 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 2 | 0.97 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 1 | 0.97 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 5 | 0.97 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 11 | 0.97 |
| (2,3723) | 1:89:A:VAL:HG11 | 1:82:A:GLU:H | 3 | 0.97 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 4 | 0.97 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 16 | 0.97 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD3 | 7 | 0.97 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 10 | 0.97 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 20 | 0.97 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 1 | 0.97 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 8 | 0.97 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 8 | 0.97 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 16 | 0.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG23 | 12 | 0.97 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 4 | 0.97 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 3 | 0.97 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 8 | 0.97 |
| (2,1792) | 1:83:A:ARG:HD3 | 1:84:A:GLU:H | 1 | 0.97 |
| (2,1792) | 1:83:A:ARG:HD3 | 1:84:A:GLU:H | 9 | 0.97 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD1 | 14 | 0.97 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD1 | 18 | 0.97 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG23 | 4 | 0.97 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 3 | 0.97 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 19 | 0.97 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 4 | 0.97 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 3 | 0.97 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 20 | 0.97 |
| (2,997) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HB2 | 10 | 0.97 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 14 | 0.97 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 2 | 0.97 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 7 | 0.97 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG21 | 12 | 0.97 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 2 | 0.96 |
| (2,4793) | 1:28:A:PHE:H | 1:55:A:THR:HG22 | 20 | 0.96 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 10 | 0.96 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 9 | 0.96 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 10 | 0.96 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 5 | 0.96 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 20 | 0.96 |
| (2,4505) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HA | 1 | 0.96 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB1 | 5 | 0.96 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 11 | 0.96 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG21 | 8 | 0.96 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 12 | 0.96 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 20 | 0.96 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 7 | 0.96 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 17 | 0.96 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 13 | 0.96 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 15 | 0.96 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 6 | 0.96 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 15 | 0.96 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 11 | 0.96 |
| (2,3922) | 1:119:A:LYS:HE3 | 1:33:A:VAL:HG22 | 4 | 0.96 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 12 | 0.96 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 11 | 0.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 17 | 0.96 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 12 | 0.96 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 3 | 0.96 |
| (2,3758) | 1:47:A:THR:HG22 | 1:36:A:PRO:HG2 | 18 | 0.96 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 10 | 0.96 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:74:A:PHE:HA | 14 | 0.96 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:79:A:SER:HB3 | 18 | 0.96 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 6 | 0.96 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 10 | 0.96 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 20 | 0.96 |
| (2,3010) | 1:8:A:THR:H | 1:8:A:THR:HG22 | 6 | 0.96 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 2 | 0.96 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 16 | 0.96 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 12 | 0.96 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 3 | 0.96 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 7 | 0.96 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 9 | 0.96 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 19 | 0.96 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG23 | 16 | 0.96 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 18 | 0.96 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 8 | 0.96 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 10 | 0.96 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD12 | 13 | 0.96 |
| (2,1446) | 1:133:A:PRO:HA | 1:136:A:GLN:HB3 | 19 | 0.96 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 6 | 0.96 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG22 | 18 | 0.96 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG21 | 6 | 0.96 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 14 | 0.96 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 15 | 0.96 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 18 | 0.96 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD11 | 18 | 0.96 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 10 | 0.96 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 7 | 0.96 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 2 | 0.96 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG21 | 15 | 0.96 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 9 | 0.95 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 19 | 0.95 |
| (2,4891) | 1:143:A:MET:H | 1:150:A:ILE:HD11 | 7 | 0.95 |
| (2,4847) | 1:76:A:TRP:H | 1:71:A:TYR:HD1 | 2 | 0.95 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 12 | 0.95 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 11 | 0.95 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 1 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 13 | 0.95 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD21 | 1 | 0.95 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 6 | 0.95 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 8 | 0.95 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD23 | 20 | 0.95 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 1 | 0.95 |
| (2,4527) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HG2 | 3 | 0.95 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB2 | 4 | 0.95 |
| (2,4345) | 1:145:A:LEU:HD13 | 1:141:A:LEU:HB3 | 4 | 0.95 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 5 | 0.95 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 13 | 0.95 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 15 | 0.95 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD3 | 10 | 0.95 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 17 | 0.95 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 20 | 0.95 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 14 | 0.95 |
| (2,4059) | 1:29:A:LEU:HD12 | 1:28:A:PHE:HD1 | 18 | 0.95 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 6 | 0.95 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:110:A:PHE:HB3 | 20 | 0.95 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 15 | 0.95 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 9 | 0.95 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 14 | 0.95 |
| (2,3774) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HB3 | 18 | 0.95 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 6 | 0.95 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 7 | 0.95 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 4 | 0.95 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG2 | 4 | 0.95 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:79:A:SER:HB3 | 9 | 0.95 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 9 | 0.95 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 4 | 0.95 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 19 | 0.95 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 19 | 0.95 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 20 | 0.95 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 6 | 0.95 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 8 | 0.95 |
| (2,2051) | 1:51:A:ILE:HG13 | 1:67:A:VAL:HG23 | 3 | 0.95 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE1 | 10 | 0.95 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD2 | 8 | 0.95 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD1 | 11 | 0.95 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG21 | 10 | 0.95 |
| (2,1372) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HE1 | 19 | 0.95 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 15 | 0.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1323) | 1:150:A:ILE:HG22 | 1:149:A:ILE:HG22 | 7 | 0.95 |
| (2,1101) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 15 | 0.95 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 9 | 0.95 |
| (2,470) | 1:53:A:VAL:HG21 | 1:62:A:LEU:H | 3 | 0.95 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 6 | 0.95 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 18 | 0.94 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 13 | 0.94 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 18 | 0.94 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD12 | 19 | 0.94 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 11 | 0.94 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB3 | 18 | 0.94 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD12 | 7 | 0.94 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 13 | 0.94 |
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 18 | 0.94 |
| (2,4242) | 1:142:A:HIS:HA | 1:145:A:LEU:HB2 | 10 | 0.94 |
| (2,4241) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HG23 | 15 | 0.94 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 19 | 0.94 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 1 | 0.94 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 13 | 0.94 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 2 | 0.94 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 15 | 0.94 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 8 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 2 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 8 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 11 | 0.94 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 16 | 0.94 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 7 | 0.94 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG21 | 2 | 0.94 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 6 | 0.94 |
| (2,3824) | 1:158:A:LYS:HB3 | 1:158:A:LYS:HE2 | 19 | 0.94 |
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD13 | 18 | 0.94 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 20 | 0.94 |
| (2,3761) | 1:53:A:VAL:HG22 | 1:28:A:PHE:HZ | 6 | 0.94 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 6 | 0.94 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 2 | 0.94 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 14 | 0.94 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 1 | 0.94 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:81:A:LEU:H | 19 | 0.94 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 6 | 0.94 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE2 | 4 | 0.94 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 3 | 0.94 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 8 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 10 | 0.94 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 1 | 0.94 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 8 | 0.94 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 18 | 0.94 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 9 | 0.94 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 12 | 0.94 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 18 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 2 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 4 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 11 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 13 | 0.94 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 20 | 0.94 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 5 | 0.94 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 16 | 0.94 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 12 | 0.94 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 18 | 0.94 |
| (2,1372) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HE1 | 7 | 0.94 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 8 | 0.94 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 1 | 0.94 |
| (2,941) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 9 | 0.94 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 13 | 0.94 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 1 | 0.94 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 2 | 0.94 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 7 | 0.94 |
| (2,470) | 1:53:A:VAL:HG21 | 1:62:A:LEU:H | 13 | 0.94 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 16 | 0.94 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 14 | 0.94 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG23 | 8 | 0.94 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 1 | 0.93 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 10 | 0.93 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 9 | 0.93 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 3 | 0.93 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 5 | 0.93 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 8 | 0.93 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG12 | 3 | 0.93 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG23 | 17 | 0.93 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 13 | 0.93 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 12 | 0.93 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 13 | 0.93 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD12 | 1 | 0.93 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 5 | 0.93 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 18 | 0.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 11 | 0.93 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 8 | 0.93 |
| (2,4128) | 1:77:A:LEU:HB3 | 1:150:A:ILE:HD12 | 17 | 0.93 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 15 | 0.93 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 11 | 0.93 |
| (2,3796) | 1:130:A:ALA:HB2 | 1:128:A:LYS:H | 2 | 0.93 |
| (2,3796) | 1:130:A:ALA:HB3 | 1:128:A:LYS:H | 6 | 0.93 |
| (2,3796) | 1:130:A:ALA:HB3 | 1:128:A:LYS:H | 13 | 0.93 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 14 | 0.93 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 12 | 0.93 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 6 | 0.93 |
| (2,3758) | 1:47:A:THR:HG22 | 1:36:A:PRO:HG2 | 7 | 0.93 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 17 | 0.93 |
| (2,3724) | 1:89:A:VAL:HG11 | 1:128:A:LYS:H | 6 | 0.93 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 6 | 0.93 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 13 | 0.93 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD3 | 5 | 0.93 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE2 | 13 | 0.93 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 16 | 0.93 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 9 | 0.93 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 5 | 0.93 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 17 | 0.93 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 15 | 0.93 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 12 | 0.93 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG23 | 17 | 0.93 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG22 | 19 | 0.93 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG23 | 18 | 0.93 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 19 | 0.93 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD2 | 6 | 0.93 |
| (2,1474) | 1:137:A:ASN:HB2 | 1:158:A:LYS:HB2 | 19 | 0.93 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 15 | 0.93 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 3 | 0.93 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 17 | 0.93 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 17 | 0.93 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 16 | 0.93 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 8 | 0.92 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 8 | 0.92 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 10 | 0.92 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 11 | 0.92 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 8 | 0.92 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 12 | 0.92 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 8 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 5 | 0.92 |
| (2,4536) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 18 | 0.92 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD21 | 10 | 0.92 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG23 | 4 | 0.92 |
| (2,4330) | 1:141:A:LEU:HD22 | 1:59:A:ILE:HG23 | 15 | 0.92 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 14 | 0.92 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 6 | 0.92 |
| (2,4153) | 1:57:A:LEU:HD22 | 1:24:A:PRO:HB2 | 17 | 0.92 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 17 | 0.92 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 2 | 0.92 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 14 | 0.92 |
| (2,4049) | 1:29:A:LEU:HD11 | 1:54:A:LYS:HB3 | 20 | 0.92 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 7 | 0.92 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 18 | 0.92 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 8 | 0.92 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 7 | 0.92 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 16 | 0.92 |
| (2,3796) | 1:130:A:ALA:HB3 | 1:128:A:LYS:H | 19 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 6 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 7 | 0.92 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:74:A:PHE:H | 11 | 0.92 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 3 | 0.92 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 4 | 0.92 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 5 | 0.92 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 8 | 0.92 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG13 | 19 | 0.92 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 9 | 0.92 |
| (2,3724) | 1:89:A:VAL:HG12 | 1:128:A:LYS:H | 20 | 0.92 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 19 | 0.92 |
| (2,3650) | 1:142:A:HIS:HA | 1:59:A:ILE:HD13 | 20 | 0.92 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 10 | 0.92 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 16 | 0.92 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 7 | 0.92 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 6 | 0.92 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 8 | 0.92 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 14 | 0.92 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 15 | 0.92 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 14 | 0.92 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 15 | 0.92 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 14 | 0.92 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 5 | 0.92 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG21 | 10 | 0.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2312) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HZ | 11 | 0.92 |
| (2,2312) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HZ | 14 | 0.92 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD1 | 15 | 0.92 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG21 | 9 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 5 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 6 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 10 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 12 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 13 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 14 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 15 | 0.92 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 20 | 0.92 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE1 | 10 | 0.92 |
| (2,1372) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HE2 | 16 | 0.92 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD11 | 7 | 0.92 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 4 | 0.92 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 17 | 0.92 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 7 | 0.91 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 6 | 0.91 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 7 | 0.91 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 15 | 0.91 |
| (2,4536) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 17 | 0.91 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB1 | 6 | 0.91 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 11 | 0.91 |
| (2,4283) | 1:86:A:LYS:HE3 | 1:86:A:LYS:HG2 | 17 | 0.91 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:114:A:PHE:H | 20 | 0.91 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 12 | 0.91 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 13 | 0.91 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:131:A:GLY:HA3 | 5 | 0.91 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 18 | 0.91 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD2 | 16 | 0.91 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 1 | 0.91 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 20 | 0.91 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 7 | 0.91 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 4 | 0.91 |
| (2,4059) | 1:29:A:LEU:HD12 | 1:28:A:PHE:HD1 | 5 | 0.91 |
| (2,4059) | 1:29:A:LEU:HD12 | 1:28:A:PHE:HD1 | 10 | 0.91 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:53:A:VAL:HB | 11 | 0.91 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 2 | 0.91 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG13 | 6 | 0.91 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 12 | 0.91 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 13 | 0.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3786) | 1:143:A:MET:HE2 | 1:149:A:ILE:HD13 | 1 | 0.91 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 18 | 0.91 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 2 | 0.91 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 13 | 0.91 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 1 | 0.91 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE2 | 5 | 0.91 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 2 | 0.91 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 14 | 0.91 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 3 | 0.91 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 2 | 0.91 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 4 | 0.91 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 18 | 0.91 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 4 | 0.91 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 5 | 0.91 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 10 | 0.91 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG21 | 15 | 0.91 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 16 | 0.91 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 3 | 0.91 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG21 | 5 | 0.91 |
| (2,2292) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HA | 16 | 0.91 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 9 | 0.91 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 12 | 0.91 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 9 | 0.91 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD2 | 19 | 0.91 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG23 | 2 | 0.91 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 7 | 0.91 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 8 | 0.91 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 16 | 0.91 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 15 | 0.91 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 8 | 0.91 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 10 | 0.91 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 18 | 0.91 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 4 | 0.91 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG21 | 1 | 0.91 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG23 | 9 | 0.91 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG22 | 16 | 0.91 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 11 | 0.9 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 13 | 0.9 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 10 | 0.9 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 10 | 0.9 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 15 | 0.9 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD13 | 10 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 3 | 0.9 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 13 | 0.9 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 19 | 0.9 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 3 | 0.9 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 17 | 0.9 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 11 | 0.9 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:52:A:ARG:HD2 | 4 | 0.9 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 9 | 0.9 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 8 | 0.9 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 15 | 0.9 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 8 | 0.9 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 14 | 0.9 |
| (2,4088) | 1:31:A:ILE:HD12 | 1:123:A:GLU:HB2 | 17 | 0.9 |
| (2,4065) | 1:81:A:LEU:HD13 | 1:135:A:ALA:H | 1 | 0.9 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 18 | 0.9 |
| (2,4059) | 1:29:A:LEU:HD11 | 1:28:A:PHE:HD1 | 13 | 0.9 |
| (2,4059) | 1:29:A:LEU:HD12 | 1:28:A:PHE:HD1 | 15 | 0.9 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 18 | 0.9 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 12 | 0.9 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 12 | 0.9 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 15 | 0.9 |
| (2,3956) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG21 | 9 | 0.9 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 11 | 0.9 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 4 | 0.9 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 20 | 0.9 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 9 | 0.9 |
| (2,3761) | 1:53:A:VAL:HG21 | 1:28:A:PHE:HZ | 17 | 0.9 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 6 | 0.9 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:82:A:GLU:HG3 | 3 | 0.9 |
| (2,3709) | 1:92:A:LEU:HD13 | 1:79:A:SER:HB3 | 7 | 0.9 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD3 | 6 | 0.9 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 18 | 0.9 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 12 | 0.9 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 3 | 0.9 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 8 | 0.9 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 11 | 0.9 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 19 | 0.9 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 18 | 0.9 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 9 | 0.9 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 18 | 0.9 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 17 | 0.9 |
| (2,2554) | 1:89:A:VAL:H | 1:87:A:VAL:HG22 | 18 | 0.9 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 3 | 0.9 |
| (2,2348) | 1:53:A:VAL:HG13 | 1:126:A:ILE:HG22 | 13 | 0.9 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 10 | 0.9 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 3 | 0.9 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 2 | 0.9 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 12 | 0.9 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 11 | 0.9 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 20 | 0.9 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 5 | 0.9 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 4 | 0.9 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 10 | 0.9 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 1 | 0.9 |
| (2,470) | 1:53:A:VAL:HG21 | 1:62:A:LEU:H | 18 | 0.9 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 5 | 0.9 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 17 | 0.9 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 5 | 0.9 |
| (2,159) | 1:66:A:THR:HG21 | 1:67:A:VAL:HG21 | 3 | 0.9 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG21 | 7 | 0.9 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 18 | 0.89 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 3 | 0.89 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 8 | 0.89 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 11 | 0.89 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 20 | 0.89 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 6 | 0.89 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 9 | 0.89 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD2 | 18 | 0.89 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 9 | 0.89 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 6 | 0.89 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 12 | 0.89 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD12 | 1 | 0.89 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 6 | 0.89 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 10 | 0.89 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 7 | 0.89 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 18 | 0.89 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 17 | 0.89 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 20 | 0.89 |
| (2,4345) | 1:145:A:LEU:HD13 | 1:141:A:LEU:HB3 | 2 | 0.89 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 17 | 0.89 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 17 | 0.89 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 10 | 0.89 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 4 | 0.89 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 4 | 0.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 3 | 0.89 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 6 | 0.89 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 9 | 0.89 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 4 | 0.89 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 7 | 0.89 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 8 | 0.89 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:76:A:TRP:H | 15 | 0.89 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD23 | 4 | 0.89 |
| (2,3803) | 1:129:A:VAL:HG23 | 1:125:A:PHE:HD2 | 16 | 0.89 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 3 | 0.89 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 2 | 0.89 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 3 | 0.89 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 10 | 0.89 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 20 | 0.89 |
| (2,3774) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HB3 | 12 | 0.89 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 14 | 0.89 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 2 | 0.89 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 2 | 0.89 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 13 | 0.89 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 15 | 0.89 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 4 | 0.89 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 10 | 0.89 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 16 | 0.89 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 19 | 0.89 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 5 | 0.89 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 10 | 0.89 |
| (2,2348) | 1:53:A:VAL:HG11 | 1:126:A:ILE:HG21 | 17 | 0.89 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 20 | 0.89 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 13 | 0.89 |
| (2,1407) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HG22 | 14 | 0.89 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 1 | 0.89 |
| (2,1372) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HE1 | 8 | 0.89 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 8 | 0.89 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 3 | 0.89 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 8 | 0.89 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 4 | 0.89 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 12 | 0.89 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 15 | 0.89 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 20 | 0.89 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 20 | 0.89 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG21 | 9 | 0.88 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 14 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 5 | 0.88 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG12 | 4 | 0.88 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 7 | 0.88 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 11 | 0.88 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 1 | 0.88 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 4 | 0.88 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 19 | 0.88 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG13 | 4 | 0.88 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG13 | 7 | 0.88 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 20 | 0.88 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 6 | 0.88 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 15 | 0.88 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 14 | 0.88 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD12 | 4 | 0.88 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 2 | 0.88 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD13 | 10 | 0.88 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 8 | 0.88 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 12 | 0.88 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 15 | 0.88 |
| (2,4330) | 1:141:A:LEU:HD21 | 1:59:A:ILE:HG23 | 20 | 0.88 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 19 | 0.88 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 14 | 0.88 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 7 | 0.88 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 12 | 0.88 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 15 | 0.88 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 14 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 2 | 0.88 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 8 | 0.88 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 1 | 0.88 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 11 | 0.88 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 2 | 0.88 |
| (2,3796) | 1:130:A:ALA:HB1 | 1:128:A:LYS:H | 4 | 0.88 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 19 | 0.88 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 16 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 1 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 14 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 15 | 0.88 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 17 | 0.88 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 5 | 0.88 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 2 | 0.88 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 16 | 0.88 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 17 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3724) | 1:89:A:VAL:HG12 | 1:128:A:LYS:H | 12 | 0.88 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 17 | 0.88 |
| (2,3706) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 7 | 0.88 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 18 | 0.88 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD3 | 17 | 0.88 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 20 | 0.88 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:89:A:VAL:HG23 | 18 | 0.88 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 3 | 0.88 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 7 | 0.88 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 20 | 0.88 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 4 | 0.88 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 7 | 0.88 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 8 | 0.88 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 15 | 0.88 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 13 | 0.88 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 13 | 0.88 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 6 | 0.88 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 5 | 0.88 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 9 | 0.88 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 12 | 0.88 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG21 | 20 | 0.88 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 15 | 0.88 |
| (2,2270) | 1:145:A:LEU:HD12 | 1:144:A:PHE:HD2 | 19 | 0.88 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 6 | 0.88 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 10 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 2 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD12 | 1:144:A:PHE:HD2 | 3 | 0.88 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 10 | 0.88 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 1 | 0.88 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 10 | 0.88 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 19 | 0.88 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 3 | 0.88 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG22 | 7 | 0.88 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 12 | 0.88 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 15 | 0.88 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 15 | 0.88 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 7 | 0.88 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 17 | 0.88 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 18 | 0.88 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 8 | 0.88 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD12 | 11 | 0.88 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 12 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 14 | 0.88 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 19 | 0.88 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 14 | 0.88 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 2 | 0.87 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 13 | 0.87 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 20 | 0.87 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD12 | 16 | 0.87 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 12 | 0.87 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 16 | 0.87 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 12 | 0.87 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB1 | 13 | 0.87 |
| (2,4334) | 1:141:A:LEU:HD23 | 1:29:A:LEU:HD11 | 9 | 0.87 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 16 | 0.87 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 19 | 0.87 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 12 | 0.87 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:143:A:MET:HE1 | 14 | 0.87 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 12 | 0.87 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 16 | 0.87 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 1 | 0.87 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 6 | 0.87 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 7 | 0.87 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 12 | 0.87 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 18 | 0.87 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 3 | 0.87 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 11 | 0.87 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:27:A:ASN:HB3 | 15 | 0.87 |
| (2,4033) | 1:59:A:ILE:HD13 | 1:138:A:GLU:H | 11 | 0.87 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 13 | 0.87 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HB3 | 5 | 0.87 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 11 | 0.87 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 16 | 0.87 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HA | 15 | 0.87 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 5 | 0.87 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 8 | 0.87 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 10 | 0.87 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 13 | 0.87 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 18 | 0.87 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 16 | 0.87 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 8 | 0.87 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 6 | 0.87 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 7 | 0.87 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 10 | 0.87 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3612) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 20 | 0.87 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE2 | 16 | 0.87 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 5 | 0.87 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 16 | 0.87 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 7 | 0.87 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 7 | 0.87 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 4 | 0.87 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 14 | 0.87 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 20 | 0.87 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 5 | 0.87 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 4 | 0.87 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 8 | 0.87 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 18 | 0.87 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 20 | 0.87 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 11 | 0.87 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 12 | 0.87 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG22 | 17 | 0.87 |
| (2,1136) | 1:59:A:ILE:HD11 | 1:136:A:GLN:HB2 | 2 | 0.87 |
| (2,1136) | 1:59:A:ILE:HD11 | 1:136:A:GLN:HB2 | 13 | 0.87 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 18 | 0.87 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 2 | 0.87 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 3 | 0.87 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 10 | 0.87 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD13 | 4 | 0.87 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD13 | 6 | 0.87 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 9 | 0.87 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 19 | 0.87 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 16 | 0.87 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 16 | 0.87 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG22 | 4 | 0.87 |
| (2,159) | 1:66:A:THR:HG22 | 1:67:A:VAL:HG23 | 11 | 0.87 |
| (2,4945) | 1:142:A:HIS:H | 1:81:A:LEU:HD21 | 16 | 0.86 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 3 | 0.86 |
| (2,4847) | 1:76:A:TRP:H | 1:71:A:TYR:HD1 | 17 | 0.86 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 5 | 0.86 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 19 | 0.86 |
| (2,4815) | 1:40:A:GLY:H | 1:46:A:PHE:HE1 | 5 | 0.86 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 12 | 0.86 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 15 | 0.86 |
| (2,4779) | 1:13:A:THR:H | 1:11:A:LEU:HG | 15 | 0.86 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 6 | 0.86 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 10 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 16 | 0.86 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 13 | 0.86 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 12 | 0.86 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 2 | 0.86 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 11 | 0.86 |
| (2,4505) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HA | 10 | 0.86 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB2 | 20 | 0.86 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 6 | 0.86 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 13 | 0.86 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 12 | 0.86 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 3 | 0.86 |
| (2,4238) | 1:31:A:ILE:HG22 | 1:123:A:GLU:HB3 | 19 | 0.86 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE1 | 19 | 0.86 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 6 | 0.86 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 7 | 0.86 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:109:A:ILE:H | 4 | 0.86 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HE1 | 10 | 0.86 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 5 | 0.86 |
| (2,4057) | 1:29:A:LEU:HD22 | 1:27:A:ASN:HB3 | 4 | 0.86 |
| (2,4033) | 1:59:A:ILE:HD11 | 1:138:A:GLU:H | 9 | 0.86 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 7 | 0.86 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 9 | 0.86 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG13 | 17 | 0.86 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD3 | 9 | 0.86 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 8 | 0.86 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 15 | 0.86 |
| (2,3724) | 1:89:A:VAL:HG12 | 1:128:A:LYS:H | 7 | 0.86 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 8 | 0.86 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 16 | 0.86 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 11 | 0.86 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 19 | 0.86 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 3 | 0.86 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 12 | 0.86 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 7 | 0.86 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 1 | 0.86 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 2 | 0.86 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 2 | 0.86 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 13 | 0.86 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 5 | 0.86 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 20 | 0.86 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 12 | 0.86 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 5 | 0.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG22 | 19 | 0.86 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 4 | 0.86 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 2 | 0.86 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 17 | 0.86 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 8 | 0.86 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG22 | 3 | 0.86 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 4 | 0.86 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 18 | 0.86 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 9 | 0.86 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 16 | 0.86 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 4 | 0.86 |
| (2,1068) | 1:159:A:ILE:HD12 | 1:145:A:LEU:HD21 | 11 | 0.86 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 14 | 0.86 |
| (2,533) | 1:143:A:MET:HE1 | 1:143:A:MET:HG2 | 7 | 0.86 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD12 | 1 | 0.86 |
| (2,470) | 1:53:A:VAL:HG22 | 1:62:A:LEU:H | 5 | 0.86 |
| (2,470) | 1:53:A:VAL:HG23 | 1:62:A:LEU:H | 11 | 0.86 |
| (2,443) | 1:105:A:GLY:HA2 | 1:104:A:ARG:HB2 | 1 | 0.86 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 3 | 0.86 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD1 | 18 | 0.85 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 20 | 0.85 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 12 | 0.85 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 18 | 0.85 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 2 | 0.85 |
| (2,4587) | 1:133:A:PRO:HB3 | 1:135:A:ALA:H | 16 | 0.85 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 8 | 0.85 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 17 | 0.85 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 7 | 0.85 |
| (2,4527) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HG2 | 2 | 0.85 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 8 | 0.85 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 17 | 0.85 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 3 | 0.85 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 18 | 0.85 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 8 | 0.85 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 13 | 0.85 |
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 15 | 0.85 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 2 | 0.85 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 1 | 0.85 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 15 | 0.85 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 19 | 0.85 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 8 | 0.85 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HG3 | 9 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4119) | 1:5:A:VAL:HG21 | 1:4:A:THR:HB | 4 | 0.85 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 13 | 0.85 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 9 | 0.85 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 6 | 0.85 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 11 | 0.85 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 4 | 0.85 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 12 | 0.85 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 20 | 0.85 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 6 | 0.85 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:27:A:ASN:HB3 | 3 | 0.85 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:53:A:VAL:HB | 17 | 0.85 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 9 | 0.85 |
| (2,4033) | 1:59:A:ILE:HD11 | 1:138:A:GLU:H | 6 | 0.85 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 19 | 0.85 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 20 | 0.85 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD21 | 3 | 0.85 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 6 | 0.85 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:110:A:PHE:HB3 | 10 | 0.85 |
| (2,3890) | 1:93:A:PRO:HG2 | 1:92:A:LEU:H | 16 | 0.85 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 8 | 0.85 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 11 | 0.85 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 4 | 0.85 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 13 | 0.85 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 16 | 0.85 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 9 | 0.85 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 12 | 0.85 |
| (2,3758) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 1 | 0.85 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 9 | 0.85 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 11 | 0.85 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 12 | 0.85 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD3 | 2 | 0.85 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 13 | 0.85 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE3 | 15 | 0.85 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 6 | 0.85 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 1 | 0.85 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 10 | 0.85 |
| (2,3421) | 1:124:A:GLN:HE22 | 1:119:A:LYS:HD2 | 19 | 0.85 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 1 | 0.85 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 5 | 0.85 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 12 | 0.85 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 15 | 0.85 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 16 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 17 | 0.85 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 6 | 0.85 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 7 | 0.85 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG23 | 11 | 0.85 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 19 | 0.85 |
| (2,2270) | 1:145:A:LEU:HD11 | 1:144:A:PHE:HD2 | 13 | 0.85 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG23 | 15 | 0.85 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 18 | 0.85 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 3 | 0.85 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 6 | 0.85 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 9 | 0.85 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 11 | 0.85 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 15 | 0.85 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 12 | 0.85 |
| (2,1372) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HE1 | 18 | 0.85 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 10 | 0.85 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 18 | 0.85 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 14 | 0.85 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 7 | 0.85 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 8 | 0.85 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 11 | 0.85 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 20 | 0.85 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 20 | 0.85 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 18 | 0.85 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 14 | 0.85 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 8 | 0.85 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD1 | 18 | 0.85 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 5 | 0.85 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 9 | 0.84 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 16 | 0.84 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 1 | 0.84 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 15 | 0.84 |
| (2,4744) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 4 | 0.84 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 5 | 0.84 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG13 | 2 | 0.84 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG21 | 8 | 0.84 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD2 | 9 | 0.84 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 9 | 0.84 |
| (2,4527) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HG2 | 5 | 0.84 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 1 | 0.84 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 13 | 0.84 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 11 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4347) | 1:38:A:THR:HG21 | 1:110:A:PHE:HZ | 16 | 0.84 |
| (2,4345) | 1:145:A:LEU:HD13 | 1:141:A:LEU:HB3 | 9 | 0.84 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 13 | 0.84 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD13 | 9 | 0.84 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 7 | 0.84 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 7 | 0.84 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 8 | 0.84 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD12 | 2 | 0.84 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 11 | 0.84 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 20 | 0.84 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 1 | 0.84 |
| (2,4091) | 1:31:A:ILE:HD13 | 1:126:A:ILE:HA | 2 | 0.84 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 7 | 0.84 |
| (2,4083) | 1:126:A:ILE:HD12 | 1:74:A:PHE:HB3 | 5 | 0.84 |
| (2,4059) | 1:29:A:LEU:HD13 | 1:28:A:PHE:HD1 | 9 | 0.84 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 10 | 0.84 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:77:A:LEU:H | 17 | 0.84 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 19 | 0.84 |
| (2,3786) | 1:143:A:MET:HE3 | 1:149:A:ILE:HG22 | 12 | 0.84 |
| (2,3781) | 1:122:A:LEU:HD11 | 1:125:A:PHE:H | 13 | 0.84 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 5 | 0.84 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 14 | 0.84 |
| (2,3776) | 1:39:A:VAL:HG13 | 1:46:A:PHE:HZ | 6 | 0.84 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 16 | 0.84 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 3 | 0.84 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 10 | 0.84 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 20 | 0.84 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 14 | 0.84 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 1 | 0.84 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 18 | 0.84 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 13 | 0.84 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 9 | 0.84 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 7 | 0.84 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 4 | 0.84 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 7 | 0.84 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 1 | 0.84 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 9 | 0.84 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 10 | 0.84 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 19 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 1 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 3 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 4 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 5 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 9 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 10 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 12 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 13 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 16 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 17 | 0.84 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 20 | 0.84 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 10 | 0.84 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 11 | 0.84 |
| (2,2348) | 1:53:A:VAL:HG12 | 1:126:A:ILE:HG22 | 6 | 0.84 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 9 | 0.84 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 16 | 0.84 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 14 | 0.84 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 17 | 0.84 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 12 | 0.84 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 4 | 0.84 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 12 | 0.84 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 13 | 0.84 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 16 | 0.84 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 20 | 0.84 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 4 | 0.84 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 3 | 0.84 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 5 | 0.84 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 18 | 0.84 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 5 | 0.84 |
| (2,1410) | 1:48:A:THR:HG23 | 1:39:A:VAL:HG21 | 13 | 0.84 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 8 | 0.84 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 20 | 0.84 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 8 | 0.84 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 5 | 0.84 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 11 | 0.84 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 13 | 0.84 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 3 | 0.84 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 13 | 0.84 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 14 | 0.84 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 20 | 0.84 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 2 | 0.84 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 6 | 0.84 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 9 | 0.84 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 11 | 0.84 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 14 | 0.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 17 | 0.84 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 16 | 0.84 |
| (2,756) | 1:122:A:LEU:HD22 | 1:74:A:PHE:HD1 | 16 | 0.84 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 5 | 0.84 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 13 | 0.84 |
| (2,470) | 1:53:A:VAL:HG21 | 1:62:A:LEU:H | 10 | 0.84 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 11 | 0.84 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 16 | 0.83 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 17 | 0.83 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 7 | 0.83 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 12 | 0.83 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 17 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 1 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 6 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 7 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 8 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 14 | 0.83 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 20 | 0.83 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 6 | 0.83 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG13 | 11 | 0.83 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 5 | 0.83 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 3 | 0.83 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 17 | 0.83 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 19 | 0.83 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 2 | 0.83 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 9 | 0.83 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 12 | 0.83 |
| (2,4381) | 1:87:A:VAL:HA | 1:134:A:LEU:HD11 | 14 | 0.83 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD23 | 14 | 0.83 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 9 | 0.83 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 17 | 0.83 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 9 | 0.83 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 1 | 0.83 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 9 | 0.83 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 15 | 0.83 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 7 | 0.83 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 7 | 0.83 |
| (2,4091) | 1:31:A:ILE:HD12 | 1:126:A:ILE:HA | 13 | 0.83 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 15 | 0.83 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 18 | 0.83 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 16 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 3 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 6 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 7 | 0.83 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 16 | 0.83 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 6 | 0.83 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 13 | 0.83 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 10 | 0.83 |
| (2,4033) | 1:59:A:ILE:HD11 | 1:138:A:GLU:H | 13 | 0.83 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 15 | 0.83 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 3 | 0.83 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 1 | 0.83 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 11 | 0.83 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG11 | 20 | 0.83 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 1 | 0.83 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 16 | 0.83 |
| (2,3774) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HB3 | 8 | 0.83 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 11 | 0.83 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 2 | 0.83 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 8 | 0.83 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 10 | 0.83 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 19 | 0.83 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 11 | 0.83 |
| (2,3614) | 1:32:A:ASP:HB2 | 1:123:A:GLU:HB3 | 14 | 0.83 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 16 | 0.83 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE3 | 7 | 0.83 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 1 | 0.83 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 13 | 0.83 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 17 | 0.83 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 17 | 0.83 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 6 | 0.83 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB2 | 19 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 2 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 8 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 11 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 14 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 15 | 0.83 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 19 | 0.83 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 5 | 0.83 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 9 | 0.83 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 1 | 0.83 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 14 | 0.83 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 17 | 0.83 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 1 | 0.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 7 | 0.83 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 10 | 0.83 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 7 | 0.83 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 13 | 0.83 |
| (2,1390) | 1:40:A:GLY:HA3 | 1:41:A:VAL:HG21 | 9 | 0.83 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 1 | 0.83 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 7 | 0.83 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 17 | 0.83 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 19 | 0.83 |
| (2,1136) | 1:59:A:ILE:HD11 | 1:136:A:GLN:HB2 | 6 | 0.83 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 10 | 0.83 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD11 | 19 | 0.83 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 11 | 0.83 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 11 | 0.83 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD12 | 2 | 0.83 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD13 | 9 | 0.83 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 3 | 0.82 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 13 | 0.82 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 14 | 0.82 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 20 | 0.82 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 13 | 0.82 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 13 | 0.82 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 17 | 0.82 |
| (2,4581) | 1:106:A:ASP:HB3 | 1:105:A:GLY:HA2 | 7 | 0.82 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 11 | 0.82 |
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 13 | 0.82 |
| (2,4570) | 1:149:A:ILE:HG22 | 1:148:A:GLU:HA | 18 | 0.82 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 1 | 0.82 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 15 | 0.82 |
| (2,4551) | 1:34:A:SER:HB3 | 1:119:A:LYS:HE2 | 12 | 0.82 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 9 | 0.82 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 13 | 0.82 |
| (2,4506) | 1:77:A:LEU:HD13 | 1:81:A:LEU:HA | 19 | 0.82 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB2 | 12 | 0.82 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 7 | 0.82 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 5 | 0.82 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 14 | 0.82 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 2 | 0.82 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 17 | 0.82 |
| (2,4115) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 6 | 0.82 |
| (2,4115) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 18 | 0.82 |
| (2,4088) | 1:31:A:ILE:HD13 | 1:123:A:GLU:HB2 | 2 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4083) | 1:126:A:ILE:HD12 | 1:74:A:PHE:HB3 | 15 | 0.82 |
| (2,4081) | 1:115:A:ILE:HD13 | 1:109:A:ILE:H | 1 | 0.82 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 12 | 0.82 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG22 | 18 | 0.82 |
| (2,4023) | 1:12:A:ILE:HD13 | 1:10:A:ARG:HD3 | 2 | 0.82 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 19 | 0.82 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 19 | 0.82 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 19 | 0.82 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 18 | 0.82 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 19 | 0.82 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG12 | 3 | 0.82 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG11 | 13 | 0.82 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 5 | 0.82 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 7 | 0.82 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 16 | 0.82 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 8 | 0.82 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 14 | 0.82 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 17 | 0.82 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 15 | 0.82 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 7 | 0.82 |
| (2,3589) | 1:107:A:ASP:H | 1:106:A:ASP:HB3 | 10 | 0.82 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 8 | 0.82 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 1 | 0.82 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 1 | 0.82 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 18 | 0.82 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 11 | 0.82 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 2 | 0.82 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 19 | 0.82 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 6 | 0.82 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 12 | 0.82 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 9 | 0.82 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 11 | 0.82 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB2 | 6 | 0.82 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 20 | 0.82 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 2 | 0.82 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 6 | 0.82 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 20 | 0.82 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 19 | 0.82 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 3 | 0.82 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 14 | 0.82 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 19 | 0.82 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 2 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 3 | 0.82 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 5 | 0.82 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 9 | 0.82 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 17 | 0.82 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 14 | 0.82 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 15 | 0.82 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 6 | 0.82 |
| (2,1409) | 1:39:A:VAL:HG23 | 1:37:A:GLN:HB2 | 17 | 0.82 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 20 | 0.82 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 8 | 0.82 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG22 | 9 | 0.82 |
| (2,1215) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 4 | 0.82 |
| (2,1215) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 17 | 0.82 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 12 | 0.82 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 16 | 0.82 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 18 | 0.82 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD13 | 10 | 0.82 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 15 | 0.82 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 13 | 0.82 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 8 | 0.82 |
| (2,224) | 1:155:A:THR:HG23 | 1:139:A:ARG:HG2 | 13 | 0.82 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 19 | 0.81 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 1 | 0.81 |
| (2,4733) | 1:111:A:ASP:H | 1:114:A:PHE:HE2 | 19 | 0.81 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 3 | 0.81 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 9 | 0.81 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 15 | 0.81 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD12 | 13 | 0.81 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 18 | 0.81 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 11 | 0.81 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 8 | 0.81 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD3 | 1 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB2 | 9 | 0.81 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB3 | 15 | 0.81 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 19 | 0.81 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 16 | 0.81 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 1 | 0.81 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 7 | 0.81 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 5 | 0.81 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 14 | 0.81 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 20 | 0.81 |
| (2,4241) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HG21 | 2 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4240) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 16 | 0.81 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 5 | 0.81 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 11 | 0.81 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 16 | 0.81 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 8 | 0.81 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 13 | 0.81 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 4 | 0.81 |
| (2,4135) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB2 | 13 | 0.81 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 3 | 0.81 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 14 | 0.81 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 12 | 0.81 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG21 | 3 | 0.81 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 7 | 0.81 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 11 | 0.81 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 1 | 0.81 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 16 | 0.81 |
| (2,3831) | 1:128:A:LYS:HG2 | 1:129:A:VAL:HG12 | 9 | 0.81 |
| (2,3781) | 1:122:A:LEU:HD12 | 1:125:A:PHE:H | 9 | 0.81 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 4 | 0.81 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 13 | 0.81 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 17 | 0.81 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 7 | 0.81 |
| (2,3764) | 1:53:A:VAL:HG23 | 1:30:A:GLU:HG3 | 13 | 0.81 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 1 | 0.81 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 2 | 0.81 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 9 | 0.81 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 5 | 0.81 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 18 | 0.81 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 1 | 0.81 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 14 | 0.81 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 5 | 0.81 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 9 | 0.81 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 19 | 0.81 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 7 | 0.81 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 19 | 0.81 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 20 | 0.81 |
| (2,2131) | 1:29:A:LEU:HD22 | 1:136:A:GLN:HE21 | 3 | 0.81 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 20 | 0.81 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 1 | 0.81 |
| (2,1638) | 1:15:A:PRO:HD3 | 1:15:A:PRO:HB3 | 5 | 0.81 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 4 | 0.81 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 18 | 0.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 9 | 0.81 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 16 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 1 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG23 | 1:37:A:GLN:HB2 | 2 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 3 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 5 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 9 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 10 | 0.81 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 15 | 0.81 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 10 | 0.81 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 10 | 0.81 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 15 | 0.81 |
| (2,1215) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 6 | 0.81 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 8 | 0.81 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 5 | 0.81 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 3 | 0.81 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 4 | 0.81 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 14 | 0.81 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 2 | 0.81 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 11 | 0.81 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 18 | 0.81 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 12 | 0.81 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 1 | 0.8 |
| (2,4796) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 4 | 0.8 |
| (2,4796) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 17 | 0.8 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 5 | 0.8 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 10 | 0.8 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 8 | 0.8 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 12 | 0.8 |
| (2,4608) | 1:79:A:SER:H | 1:77:A:LEU:HD22 | 11 | 0.8 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 12 | 0.8 |
| (2,4566) | 1:157:A:SER:HB2 | 1:139:A:ARG:HD2 | 13 | 0.8 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 4 | 0.8 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 7 | 0.8 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:136:A:GLN:HA | 5 | 0.8 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 3 | 0.8 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 5 | 0.8 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 11 | 0.8 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 10 | 0.8 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 10 | 0.8 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 10 | 0.8 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 9 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 10 | 0.8 |
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 17 | 0.8 |
| (2,4244) | 1:35:A:ASN:HB3 | 1:34:A:SER:HB2 | 8 | 0.8 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE2 | 20 | 0.8 |
| (2,4115) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 13 | 0.8 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 20 | 0.8 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 2 | 0.8 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 11 | 0.8 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 16 | 0.8 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 2 | 0.8 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG12 | 1 | 0.8 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD2 | 4 | 0.8 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 1 | 0.8 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 7 | 0.8 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 18 | 0.8 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HA | 14 | 0.8 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:136:A:GLN:HA | 20 | 0.8 |
| (2,3803) | 1:129:A:VAL:HG22 | 1:125:A:PHE:HD2 | 3 | 0.8 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 8 | 0.8 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 4 | 0.8 |
| (2,3724) | 1:89:A:VAL:HG13 | 1:128:A:LYS:H | 18 | 0.8 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 12 | 0.8 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 6 | 0.8 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 12 | 0.8 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG23 | 16 | 0.8 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 11 | 0.8 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 10 | 0.8 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 20 | 0.8 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD13 | 15 | 0.8 |
| (2,3423) | 1:125:A:PHE:H | 1:123:A:GLU:HG2 | 19 | 0.8 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 18 | 0.8 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 1 | 0.8 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 17 | 0.8 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 8 | 0.8 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 10 | 0.8 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 11 | 0.8 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD23 | 20 | 0.8 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 13 | 0.8 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 19 | 0.8 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 9 | 0.8 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 7 | 0.8 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 1 | 0.8 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 3 | 0.8 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 8 | 0.8 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 4 | 0.8 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 19 | 0.8 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 2 | 0.8 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 16 | 0.8 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 6 | 0.8 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 7 | 0.8 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 16 | 0.8 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 2 | 0.8 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 6 | 0.8 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 16 | 0.8 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 18 | 0.8 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 19 | 0.8 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 6 | 0.8 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 9 | 0.8 |
| (2,1312) | 1:149:A:ILE:HG22 | 1:151:A:ASP:H | 11 | 0.8 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 6 | 0.8 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 17 | 0.8 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 2 | 0.8 |
| (2,1215) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 10 | 0.8 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 18 | 0.8 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 3 | 0.8 |
| (2,1147) | 1:122:A:LEU:HD12 | 1:93:A:PRO:HB3 | 19 | 0.8 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG13 | 4 | 0.8 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 2 | 0.8 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 9 | 0.8 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 20 | 0.8 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 4 | 0.8 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 13 | 0.8 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 3 | 0.8 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 14 | 0.79 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 15 | 0.79 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 11 | 0.79 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 16 | 0.79 |
| (2,4847) | 1:76:A:TRP:H | 1:71:A:TYR:HD1 | 15 | 0.79 |
| (2,4796) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 6 | 0.79 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 8 | 0.79 |
| (2,4744) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 19 | 0.79 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 19 | 0.79 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 20 | 0.79 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 14 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 2 | 0.79 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 16 | 0.79 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 3 | 0.79 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:136:A:GLN:HA | 4 | 0.79 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD21 | 5 | 0.79 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 10 | 0.79 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 7 | 0.79 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 12 | 0.79 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HB | 5 | 0.79 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 6 | 0.79 |
| (2,4398) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HD3 | 4 | 0.79 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 17 | 0.79 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 1 | 0.79 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 12 | 0.79 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 19 | 0.79 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 20 | 0.79 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 14 | 0.79 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 2 | 0.79 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 11 | 0.79 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 9 | 0.79 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 10 | 0.79 |
| (2,4057) | 1:29:A:LEU:HD22 | 1:27:A:ASN:HB3 | 11 | 0.79 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 19 | 0.79 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG21 | 19 | 0.79 |
| (2,4033) | 1:59:A:ILE:HD11 | 1:138:A:GLU:H | 2 | 0.79 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 14 | 0.79 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 2 | 0.79 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 5 | 0.79 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 6 | 0.79 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 7 | 0.79 |
| (2,3774) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HB3 | 10 | 0.79 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 19 | 0.79 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 9 | 0.79 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 12 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 5 | 0.79 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 9 | 0.79 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 3 | 0.79 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 1 | 0.79 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 4 | 0.79 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 12 | 0.79 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 9 | 0.79 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG21 | 8 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 10 | 0.79 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 6 | 0.79 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 14 | 0.79 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 12 | 0.79 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD13 | 16 | 0.79 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 4 | 0.79 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 17 | 0.79 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 1 | 0.79 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 3 | 0.79 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 6 | 0.79 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG23 | 8 | 0.79 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 8 | 0.79 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 9 | 0.79 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 6 | 0.79 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 17 | 0.79 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 11 | 0.79 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 5 | 0.79 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 6 | 0.79 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 7 | 0.79 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 9 | 0.79 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 3 | 0.79 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 20 | 0.79 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 4 | 0.79 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 7 | 0.79 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 4 | 0.79 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 19 | 0.79 |
| (2,1409) | 1:39:A:VAL:HG22 | 1:37:A:GLN:HB2 | 7 | 0.79 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 2 | 0.79 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 9 | 0.79 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 17 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 2 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 3 | 0.79 |
| (2,1301) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 20 | 0.79 |
| (2,1166) | 1:45:A:ARG:HA | 1:45:A:ARG:HD3 | 1 | 0.79 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 13 | 0.79 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD12 | 12 | 0.79 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 7 | 0.79 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 2 | 0.79 |
| (2,756) | 1:122:A:LEU:HD23 | 1:74:A:PHE:HD1 | 5 | 0.79 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 5 | 0.79 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 4 | 0.79 |
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 6 | 0.79 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,533) | 1:143:A:MET:HE3 | 1:143:A:MET:HG2 | 16 | 0.79 |
| (2,533) | 1:143:A:MET:HE2 | 1:143:A:MET:HG2 | 19 | 0.79 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 2 | 0.79 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 16 | 0.79 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 7 | 0.79 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 5 | 0.79 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE3 | 18 | 0.78 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 14 | 0.78 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 2 | 0.78 |
| (2,4796) | 1:29:A:LEU:HD22 | 1:30:A:GLU:H | 10 | 0.78 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 18 | 0.78 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 14 | 0.78 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 18 | 0.78 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 2 | 0.78 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 4 | 0.78 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 11 | 0.78 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 5 | 0.78 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 12 | 0.78 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 4 | 0.78 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 8 | 0.78 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 17 | 0.78 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 1 | 0.78 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 6 | 0.78 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 18 | 0.78 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 10 | 0.78 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 18 | 0.78 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 13 | 0.78 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD12 | 5 | 0.78 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 9 | 0.78 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 14 | 0.78 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 19 | 0.78 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 13 | 0.78 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 6 | 0.78 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 10 | 0.78 |
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 12 | 0.78 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 7 | 0.78 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 16 | 0.78 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 3 | 0.78 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 17 | 0.78 |
| (2,4111) | 1:96:A:ALA:HB3 | 1:99:A:ARG:HD2 | 9 | 0.78 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 16 | 0.78 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 10 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4057) | 1:29:A:LEU:HD21 | 1:27:A:ASN:HB3 | 20 | 0.78 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:145:A:LEU:HG | 9 | 0.78 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:53:A:VAL:HB | 13 | 0.78 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 1 | 0.78 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 4 | 0.78 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 12 | 0.78 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 12 | 0.78 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 4 | 0.78 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 13 | 0.78 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 10 | 0.78 |
| (2,3780) | 1:122:A:LEU:HD12 | 1:123:A:GLU:H | 9 | 0.78 |
| (2,3780) | 1:122:A:LEU:HD13 | 1:123:A:GLU:H | 12 | 0.78 |
| (2,3780) | 1:122:A:LEU:HD11 | 1:123:A:GLU:H | 15 | 0.78 |
| (2,3774) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HB3 | 19 | 0.78 |
| (2,3695) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 12 | 0.78 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 15 | 0.78 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 11 | 0.78 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 4 | 0.78 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 20 | 0.78 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 16 | 0.78 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 19 | 0.78 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 18 | 0.78 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 19 | 0.78 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 4 | 0.78 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 9 | 0.78 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 15 | 0.78 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 13 | 0.78 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 6 | 0.78 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 17 | 0.78 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 18 | 0.78 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG21 | 16 | 0.78 |
| (2,2014) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HD22 | 16 | 0.78 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 12 | 0.78 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 13 | 0.78 |
| (2,1965) | 1:149:A:ILE:HD13 | 1:150:A:ILE:HA | 15 | 0.78 |
| (2,1953) | 1:145:A:LEU:HD23 | 1:141:A:LEU:HB3 | 10 | 0.78 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 18 | 0.78 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 9 | 0.78 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 4 | 0.78 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 13 | 0.78 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 19 | 0.78 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 11 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 12 | 0.78 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 4 | 0.78 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 7 | 0.78 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG21 | 19 | 0.78 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 19 | 0.78 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 1 | 0.78 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 12 | 0.78 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 16 | 0.78 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 9 | 0.78 |
| (2,533) | 1:143:A:MET:HE1 | 1:143:A:MET:HG2 | 15 | 0.78 |
| (2,523) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 15 | 0.78 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 1 | 0.78 |
| (2,332) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HB2 | 12 | 0.78 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 11 | 0.78 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 3 | 0.77 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 11 | 0.77 |
| (2,4945) | 1:142:A:HIS:H | 1:81:A:LEU:HD21 | 7 | 0.77 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 17 | 0.77 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 5 | 0.77 |
| (2,4703) | 1:28:A:PHE:H | 1:30:A:GLU:H | 15 | 0.77 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 6 | 0.77 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 6 | 0.77 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 5 | 0.77 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 14 | 0.77 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 10 | 0.77 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 20 | 0.77 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD13 | 18 | 0.77 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 5 | 0.77 |
| (2,4492) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 6 | 0.77 |
| (2,4492) | 1:31:A:ILE:HD13 | 1:130:A:ALA:HA | 17 | 0.77 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 3 | 0.77 |
| (2,4435) | 1:59:A:ILE:HD13 | 1:159:A:ILE:HG12 | 11 | 0.77 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 20 | 0.77 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 12 | 0.77 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 14 | 0.77 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD21 | 9 | 0.77 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 4 | 0.77 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 20 | 0.77 |
| (2,4115) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 12 | 0.77 |
| (2,4115) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 17 | 0.77 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 3 | 0.77 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 14 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 10 | 0.77 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 5 | 0.77 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 5 | 0.77 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 14 | 0.77 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 8 | 0.77 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 13 | 0.77 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG12 | 20 | 0.77 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HA | 18 | 0.77 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 2 | 0.77 |
| (2,3723) | 1:89:A:VAL:HG11 | 1:82:A:GLU:H | 20 | 0.77 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 5 | 0.77 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 10 | 0.77 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 19 | 0.77 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 7 | 0.77 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 12 | 0.77 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 13 | 0.77 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 13 | 0.77 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 14 | 0.77 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 19 | 0.77 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 20 | 0.77 |
| (2,3055) | 1:16:A:GLN:HB2 | 1:16:A:GLN:H | 20 | 0.77 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 5 | 0.77 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 14 | 0.77 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD23 | 16 | 0.77 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 18 | 0.77 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 11 | 0.77 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 11 | 0.77 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 7 | 0.77 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 19 | 0.77 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 1 | 0.77 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 16 | 0.77 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 7 | 0.77 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 13 | 0.77 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD1 | 18 | 0.77 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 12 | 0.77 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 2 | 0.77 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 8 | 0.77 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 17 | 0.77 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 6 | 0.77 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 5 | 0.77 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 9 | 0.77 |
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 17 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1476) | 1:15:A:PRO:HA | 1:15:A:PRO:HG2 | 20 | 0.77 |
| (2,1409) | 1:39:A:VAL:HG23 | 1:37:A:GLN:HB2 | 4 | 0.77 |
| (2,1409) | 1:39:A:VAL:HG21 | 1:37:A:GLN:HB2 | 13 | 0.77 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 13 | 0.77 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 1 | 0.77 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 19 | 0.77 |
| (2,1215) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 1 | 0.77 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 8 | 0.77 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 11 | 0.77 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 12 | 0.77 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD11 | 6 | 0.77 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD13 | 20 | 0.77 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 5 | 0.77 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 14 | 0.77 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 14 | 0.77 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 4 | 0.77 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 20 | 0.77 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 5 | 0.76 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 19 | 0.76 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 6 | 0.76 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 13 | 0.76 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 20 | 0.76 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 20 | 0.76 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 17 | 0.76 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG13 | 19 | 0.76 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 3 | 0.76 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 8 | 0.76 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 10 | 0.76 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 15 | 0.76 |
| (2,4530) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HD1 | 1 | 0.76 |
| (2,4522) | 1:99:A:ARG:HD2 | 1:101:A:LEU:HD11 | 7 | 0.76 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 10 | 0.76 |
| (2,4475) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD11 | 19 | 0.76 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB2 | 10 | 0.76 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE3 | 7 | 0.76 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 4 | 0.76 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 14 | 0.76 |
| (2,4347) | 1:38:A:THR:HG22 | 1:110:A:PHE:HZ | 14 | 0.76 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 18 | 0.76 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 6 | 0.76 |
| (2,4311) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HD3 | 2 | 0.76 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 15 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4270) | 1:97:A:PHE:HB3 | 1:101:A:LEU:H | 5 | 0.76 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 5 | 0.76 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 6 | 0.76 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 13 | 0.76 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 7 | 0.76 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 6 | 0.76 |
| (2,4115) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 7 | 0.76 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 2 | 0.76 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 19 | 0.76 |
| (2,4088) | 1:31:A:ILE:HD11 | 1:123:A:GLU:HB2 | 16 | 0.76 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 10 | 0.76 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 13 | 0.76 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 19 | 0.76 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 8 | 0.76 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 3 | 0.76 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 3 | 0.76 |
| (2,4033) | 1:59:A:ILE:HD13 | 1:138:A:GLU:H | 16 | 0.76 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD2 | 16 | 0.76 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 4 | 0.76 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 20 | 0.76 |
| (2,3961) | 1:109:A:ILE:HD11 | 1:108:A:GLY:HA2 | 9 | 0.76 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 1 | 0.76 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 2 | 0.76 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 1 | 0.76 |
| (2,3781) | 1:122:A:LEU:HD13 | 1:125:A:PHE:H | 20 | 0.76 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 8 | 0.76 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG2 | 3 | 0.76 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 1 | 0.76 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 2 | 0.76 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 8 | 0.76 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 3 | 0.76 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 1 | 0.76 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 13 | 0.76 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 5 | 0.76 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 17 | 0.76 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 20 | 0.76 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 8 | 0.76 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 15 | 0.76 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 2 | 0.76 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 8 | 0.76 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 14 | 0.76 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 20 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 2 | 0.76 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 8 | 0.76 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 15 | 0.76 |
| (2,2945) | 1:62:A:LEU:HD12 | 1:62:A:LEU:H | 6 | 0.76 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB1 | 7 | 0.76 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 5 | 0.76 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 3 | 0.76 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 2 | 0.76 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 11 | 0.76 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 15 | 0.76 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 9 | 0.76 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 2 | 0.76 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 15 | 0.76 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 10 | 0.76 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 9 | 0.76 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 4 | 0.76 |
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 17 | 0.76 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 12 | 0.76 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 19 | 0.76 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 13 | 0.76 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 13 | 0.76 |
| (2,1409) | 1:39:A:VAL:HG23 | 1:37:A:GLN:HB2 | 14 | 0.76 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 2 | 0.76 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 7 | 0.76 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 13 | 0.76 |
| (2,1342) | 1:59:A:ILE:HG21 | 1:136:A:GLN:HB2 | 14 | 0.76 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 10 | 0.76 |
| (2,1312) | 1:149:A:ILE:HG22 | 1:151:A:ASP:H | 1 | 0.76 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 9 | 0.76 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 12 | 0.76 |
| (2,1215) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 11 | 0.76 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD13 | 19 | 0.76 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 6 | 0.76 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 18 | 0.76 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 8 | 0.76 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 12 | 0.76 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD12 | 1 | 0.76 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD12 | 4 | 0.76 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD11 | 12 | 0.76 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD13 | 13 | 0.76 |
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 2 | 0.76 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 1 | 0.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 1 | 0.75 |
| (2,4796) | 1:29:A:LEU:HD21 | 1:30:A:GLU:H | 19 | 0.75 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 16 | 0.75 |
| (2,4760) | 1:5:A:VAL:HG12 | 1:4:A:THR:H | 1 | 0.75 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG13 | 18 | 0.75 |
| (2,4744) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 14 | 0.75 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 10 | 0.75 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 1 | 0.75 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 9 | 0.75 |
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 16 | 0.75 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 17 | 0.75 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 5 | 0.75 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 12 | 0.75 |
| (2,4506) | 1:77:A:LEU:HD13 | 1:81:A:LEU:HA | 2 | 0.75 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 1 | 0.75 |
| (2,4492) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 4 | 0.75 |
| (2,4492) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 7 | 0.75 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 20 | 0.75 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 1 | 0.75 |
| (2,4471) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HA | 17 | 0.75 |
| (2,4435) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HG12 | 6 | 0.75 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 7 | 0.75 |
| (2,4435) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 17 | 0.75 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 13 | 0.75 |
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 14 | 0.75 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 10 | 0.75 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 9 | 0.75 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 10 | 0.75 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD3 | 1 | 0.75 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD2 | 20 | 0.75 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 4 | 0.75 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 14 | 0.75 |
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 15 | 0.75 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 5 | 0.75 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 12 | 0.75 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG22 | 15 | 0.75 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 5 | 0.75 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 6 | 0.75 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 2 | 0.75 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 17 | 0.75 |
| (2,3749) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HG2 | 19 | 0.75 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 13 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3706) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 8 | 0.75 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 2 | 0.75 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 16 | 0.75 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 18 | 0.75 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 18 | 0.75 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 19 | 0.75 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 11 | 0.75 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 13 | 0.75 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 19 | 0.75 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 20 | 0.75 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 20 | 0.75 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 10 | 0.75 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 14 | 0.75 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG22 | 7 | 0.75 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 20 | 0.75 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 1 | 0.75 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 12 | 0.75 |
| (2,2337) | 1:98:A:LEU:HD23 | 1:100:A:GLN:HB2 | 17 | 0.75 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 3 | 0.75 |
| (2,2314) | 1:77:A:LEU:HD22 | 1:125:A:PHE:HZ | 5 | 0.75 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 6 | 0.75 |
| (2,2150) | 1:51:A:ILE:HA | 1:33:A:VAL:HG23 | 14 | 0.75 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 15 | 0.75 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 1 | 0.75 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 7 | 0.75 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 12 | 0.75 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 15 | 0.75 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 17 | 0.75 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 11 | 0.75 |
| (2,1586) | 1:141:A:LEU:HD11 | 1:144:A:PHE:HD2 | 17 | 0.75 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD12 | 9 | 0.75 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 8 | 0.75 |
| (2,1301) | 1:31:A:ILE:HD12 | 1:130:A:ALA:HA | 16 | 0.75 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 14 | 0.75 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 13 | 0.75 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 17 | 0.75 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD13 | 17 | 0.75 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 17 | 0.75 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 13 | 0.75 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 19 | 0.75 |
| (2,224) | 1:155:A:THR:HG22 | 1:139:A:ARG:HG2 | 3 | 0.75 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 3 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 4 | 0.75 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 7 | 0.75 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 2 | 0.74 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 2 | 0.74 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 5 | 0.74 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 8 | 0.74 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 9 | 0.74 |
| (2,4796) | 1:29:A:LEU:HD23 | 1:30:A:GLU:H | 11 | 0.74 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 15 | 0.74 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG22 | 3 | 0.74 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG23 | 5 | 0.74 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG13 | 19 | 0.74 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 12 | 0.74 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 4 | 0.74 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 20 | 0.74 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 1 | 0.74 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 16 | 0.74 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 8 | 0.74 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 6 | 0.74 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 8 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 10 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 11 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 12 | 0.74 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 15 | 0.74 |
| (2,4558) | 1:33:A:VAL:HG12 | 1:127:A:ASN:HD21 | 13 | 0.74 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 19 | 0.74 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 12 | 0.74 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 2 | 0.74 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 8 | 0.74 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 20 | 0.74 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 3 | 0.74 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD12 | 2 | 0.74 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 6 | 0.74 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB2 | 14 | 0.74 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 11 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 5 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 8 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 9 | 0.74 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 12 | 0.74 |
| (2,4435) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 15 | 0.74 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 4 | 0.74 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 6 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 3 | 0.74 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 18 | 0.74 |
| (2,4238) | 1:31:A:ILE:HG23 | 1:123:A:GLU:HB3 | 16 | 0.74 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 2 | 0.74 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE1 | 11 | 0.74 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 18 | 0.74 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 10 | 0.74 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 14 | 0.74 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:110:A:PHE:HE2 | 20 | 0.74 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG21 | 8 | 0.74 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 19 | 0.74 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 7 | 0.74 |
| (2,3755) | 1:48:A:THR:HG21 | 1:46:A:PHE:HB2 | 11 | 0.74 |
| (2,3754) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 8 | 0.74 |
| (2,3754) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 14 | 0.74 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 3 | 0.74 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 6 | 0.74 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 5 | 0.74 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG21 | 15 | 0.74 |
| (2,3618) | 1:32:A:ASP:HB3 | 1:31:A:ILE:HG23 | 20 | 0.74 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:89:A:VAL:HG22 | 3 | 0.74 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG21 | 2 | 0.74 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 19 | 0.74 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 20 | 0.74 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 7 | 0.74 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 20 | 0.74 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 2 | 0.74 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 11 | 0.74 |
| (2,2747) | 1:122:A:LEU:HD23 | 1:121:A:GLY:H | 13 | 0.74 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 11 | 0.74 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 6 | 0.74 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 1 | 0.74 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 12 | 0.74 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 18 | 0.74 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 10 | 0.74 |
| (2,2078) | 1:155:A:THR:HG22 | 1:139:A:ARG:HA | 3 | 0.74 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 15 | 0.74 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 16 | 0.74 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 18 | 0.74 |
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 5 | 0.74 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 6 | 0.74 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 3 | 0.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 7 | 0.74 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 8 | 0.74 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD23 | 10 | 0.74 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 3 | 0.74 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 9 | 0.74 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 3 | 0.74 |
| (2,1209) | 1:29:A:LEU:HD22 | 1:56:A:ASN:H | 4 | 0.74 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 10 | 0.74 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 5 | 0.74 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 6 | 0.74 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD11 | 7 | 0.74 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 7 | 0.74 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 8 | 0.74 |
| (2,510) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HD13 | 10 | 0.74 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD12 | 3 | 0.74 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD11 | 11 | 0.74 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD12 | 19 | 0.74 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 10 | 0.74 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 11 | 0.74 |
| (2,346) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 12 | 0.74 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 15 | 0.74 |
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 12 | 0.74 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 13 | 0.73 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 2 | 0.73 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 3 | 0.73 |
| (2,4770) | 1:10:A:ARG:H | 1:11:A:LEU:HB3 | 1 | 0.73 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG12 | 1 | 0.73 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 13 | 0.73 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 11 | 0.73 |
| (2,4564) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 3 | 0.73 |
| (2,4564) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 7 | 0.73 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 19 | 0.73 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 16 | 0.73 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 4 | 0.73 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 12 | 0.73 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 20 | 0.73 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 14 | 0.73 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 12 | 0.73 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 15 | 0.73 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 19 | 0.73 |
| (2,4435) | 1:59:A:ILE:HD13 | 1:159:A:ILE:HG12 | 1 | 0.73 |
| (2,4435) | 1:59:A:ILE:HD13 | 1:159:A:ILE:HG12 | 18 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4423) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HG3 | 15 | 0.73 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 3 | 0.73 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 2 | 0.73 |
| (2,4287) | 1:86:A:LYS:HE2 | 1:134:A:LEU:HD12 | 9 | 0.73 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 10 | 0.73 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 1 | 0.73 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 6 | 0.73 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 14 | 0.73 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 20 | 0.73 |
| (2,4155) | 1:57:A:LEU:HG | 1:60:A:PHE:HE1 | 5 | 0.73 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 9 | 0.73 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 4 | 0.73 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 11 | 0.73 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 11 | 0.73 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 17 | 0.73 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 17 | 0.73 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG21 | 4 | 0.73 |
| (2,4033) | 1:59:A:ILE:HD13 | 1:138:A:GLU:H | 1 | 0.73 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 7 | 0.73 |
| (2,4033) | 1:59:A:ILE:HD12 | 1:138:A:GLU:H | 17 | 0.73 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 19 | 0.73 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 17 | 0.73 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 20 | 0.73 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG12 | 5 | 0.73 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:136:A:GLN:HA | 12 | 0.73 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 20 | 0.73 |
| (2,3762) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 3 | 0.73 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG13 | 11 | 0.73 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 3 | 0.73 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 18 | 0.73 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 19 | 0.73 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:79:A:SER:HB3 | 6 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 2 | 0.73 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 7 | 0.73 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 11 | 0.73 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 14 | 0.73 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 16 | 0.73 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 8 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 9 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 11 | 0.73 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 18 | 0.73 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 2 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 7 | 0.73 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 11 | 0.73 |
| (2,3540) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HA | 1 | 0.73 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG21 | 14 | 0.73 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 11 | 0.73 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 3 | 0.73 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 11 | 0.73 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 6 | 0.73 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 13 | 0.73 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 2 | 0.73 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 11 | 0.73 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 7 | 0.73 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG21 | 2 | 0.73 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 8 | 0.73 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG23 | 4 | 0.73 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 16 | 0.73 |
| (2,2337) | 1:98:A:LEU:HD22 | 1:100:A:GLN:HB2 | 14 | 0.73 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 15 | 0.73 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 2 | 0.73 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 8 | 0.73 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 7 | 0.73 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 8 | 0.73 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 11 | 0.73 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 20 | 0.73 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 18 | 0.73 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 20 | 0.73 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 13 | 0.73 |
| (2,1586) | 1:141:A:LEU:HD13 | 1:144:A:PHE:HD2 | 16 | 0.73 |
| (2,1410) | 1:48:A:THR:HG21 | 1:39:A:VAL:HG23 | 2 | 0.73 |
| (2,1410) | 1:48:A:THR:HG22 | 1:39:A:VAL:HG22 | 20 | 0.73 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 5 | 0.73 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 8 | 0.73 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 18 | 0.73 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 19 | 0.73 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 16 | 0.73 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 12 | 0.73 |
| (2,1209) | 1:29:A:LEU:HD22 | 1:56:A:ASN:H | 6 | 0.73 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 8 | 0.73 |
| (2,1209) | 1:29:A:LEU:HD22 | 1:56:A:ASN:H | 11 | 0.73 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 15 | 0.73 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 16 | 0.73 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 11 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 14 | 0.73 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG13 | 1 | 0.73 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD12 | 8 | 0.73 |
| (2,346) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 3 | 0.73 |
| (2,346) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 7 | 0.73 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 19 | 0.73 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 4 | 0.73 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 5 | 0.73 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 8 | 0.73 |
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 9 | 0.73 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 20 | 0.73 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 12 | 0.73 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 16 | 0.72 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 6 | 0.72 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 17 | 0.72 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG23 | 17 | 0.72 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 17 | 0.72 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 2 | 0.72 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 15 | 0.72 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 19 | 0.72 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 11 | 0.72 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG12 | 14 | 0.72 |
| (2,4657) | 1:44:A:GLY:H | 1:41:A:VAL:HG11 | 18 | 0.72 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 5 | 0.72 |
| (2,4608) | 1:79:A:SER:H | 1:81:A:LEU:HD13 | 13 | 0.72 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD2 | 14 | 0.72 |
| (2,4586) | 1:100:A:GLN:HG2 | 1:98:A:LEU:HD11 | 7 | 0.72 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 9 | 0.72 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 4 | 0.72 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 20 | 0.72 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 5 | 0.72 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 13 | 0.72 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 19 | 0.72 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB3 | 2 | 0.72 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 2 | 0.72 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 5 | 0.72 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 13 | 0.72 |
| (2,4435) | 1:59:A:ILE:HD11 | 1:159:A:ILE:HG12 | 2 | 0.72 |
| (2,4435) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HG12 | 16 | 0.72 |
| (2,4396) | 1:61:A:LYS:HD3 | 1:61:A:LYS:HA | 10 | 0.72 |
| (2,4347) | 1:38:A:THR:HG21 | 1:110:A:PHE:HZ | 2 | 0.72 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 1 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4311) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HD2 | 1 | 0.72 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 16 | 0.72 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 3 | 0.72 |
| (2,4240) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 15 | 0.72 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG22 | 1 | 0.72 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 18 | 0.72 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 17 | 0.72 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 11 | 0.72 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 19 | 0.72 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD2 | 18 | 0.72 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 6 | 0.72 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 1 | 0.72 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 7 | 0.72 |
| (2,4083) | 1:126:A:ILE:HD12 | 1:74:A:PHE:HB3 | 18 | 0.72 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 10 | 0.72 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 14 | 0.72 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 12 | 0.72 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 5 | 0.72 |
| (2,3776) | 1:39:A:VAL:HG12 | 1:46:A:PHE:HZ | 18 | 0.72 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 9 | 0.72 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 14 | 0.72 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 18 | 0.72 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 1 | 0.72 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 7 | 0.72 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 16 | 0.72 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 18 | 0.72 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 9 | 0.72 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 13 | 0.72 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 7 | 0.72 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 13 | 0.72 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 17 | 0.72 |
| (2,3639) | 1:79:A:SER:HB3 | 1:78:A:ARG:HG2 | 3 | 0.72 |
| (2,3589) | 1:107:A:ASP:H | 1:106:A:ASP:HB3 | 6 | 0.72 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 5 | 0.72 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 13 | 0.72 |
| (2,3544) | 1:117:A:GLU:H | 1:114:A:PHE:HE1 | 17 | 0.72 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 3 | 0.72 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 6 | 0.72 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 4 | 0.72 |
| (2,3423) | 1:125:A:PHE:H | 1:123:A:GLU:HG2 | 10 | 0.72 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG21 | 16 | 0.72 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 12 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 8 | 0.72 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 2 | 0.72 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 4 | 0.72 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 9 | 0.72 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 14 | 0.72 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 15 | 0.72 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 10 | 0.72 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 17 | 0.72 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 2 | 0.72 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 20 | 0.72 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 11 | 0.72 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 7 | 0.72 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 4 | 0.72 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 19 | 0.72 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 19 | 0.72 |
| (2,1965) | 1:149:A:ILE:HD11 | 1:150:A:ILE:HA | 12 | 0.72 |
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 10 | 0.72 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 11 | 0.72 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 13 | 0.72 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 16 | 0.72 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD13 | 3 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 6 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 9 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 10 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 11 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 12 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 16 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 17 | 0.72 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 20 | 0.72 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 11 | 0.72 |
| (2,1342) | 1:59:A:ILE:HG22 | 1:136:A:GLN:HB2 | 12 | 0.72 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 16 | 0.72 |
| (2,1301) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 18 | 0.72 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG21 | 6 | 0.72 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 9 | 0.72 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 8 | 0.72 |
| (2,1102) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 3 | 0.72 |
| (2,1102) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 9 | 0.72 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 2 | 0.72 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 5 | 0.72 |
| (2,757) | 1:122:A:LEU:HD23 | 1:49:A:TYR:HD2 | 16 | 0.72 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 9 | 0.72 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 10 | 0.72 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 11 | 0.72 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 13 | 0.72 |
| (2,270) | 1:109:A:ILE:HD13 | 1:110:A:PHE:H | 17 | 0.72 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 18 | 0.72 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 5 | 0.72 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 5 | 0.71 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 9 | 0.71 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HA | 16 | 0.71 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 13 | 0.71 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 5 | 0.71 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 8 | 0.71 |
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 18 | 0.71 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 2 | 0.71 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 7 | 0.71 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 18 | 0.71 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 2 | 0.71 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 20 | 0.71 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 7 | 0.71 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 13 | 0.71 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 20 | 0.71 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 16 | 0.71 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 5 | 0.71 |
| (2,4558) | 1:33:A:VAL:HG11 | 1:127:A:ASN:HD21 | 2 | 0.71 |
| (2,4541) | 1:146:A:GLN:HG2 | 1:143:A:MET:HA | 9 | 0.71 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 2 | 0.71 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 18 | 0.71 |
| (2,4506) | 1:77:A:LEU:HD13 | 1:81:A:LEU:HA | 4 | 0.71 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD11 | 13 | 0.71 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 17 | 0.71 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 9 | 0.71 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 12 | 0.71 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 20 | 0.71 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB2 | 3 | 0.71 |
| (2,4469) | 1:77:A:LEU:HD11 | 1:130:A:ALA:HB3 | 11 | 0.71 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 8 | 0.71 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 18 | 0.71 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 8 | 0.71 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 9 | 0.71 |
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD3 | 17 | 0.71 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 15 | 0.71 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD23 | 14 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4341) | 1:144:A:PHE:HA | 1:74:A:PHE:HA | 20 | 0.71 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 16 | 0.71 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 9 | 0.71 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 18 | 0.71 |
| (2,4240) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 18 | 0.71 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 18 | 0.71 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 5 | 0.71 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 17 | 0.71 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 15 | 0.71 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 20 | 0.71 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 6 | 0.71 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG22 | 11 | 0.71 |
| (2,4033) | 1:59:A:ILE:HD13 | 1:138:A:GLU:H | 18 | 0.71 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:76:A:TRP:H | 20 | 0.71 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 1 | 0.71 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 6 | 0.71 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 17 | 0.71 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 3 | 0.71 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 14 | 0.71 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 15 | 0.71 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 4 | 0.71 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 1 | 0.71 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 4 | 0.71 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 10 | 0.71 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 15 | 0.71 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 6 | 0.71 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG21 | 3 | 0.71 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 4 | 0.71 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG23 | 7 | 0.71 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 10 | 0.71 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 14 | 0.71 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 9 | 0.71 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG22 | 15 | 0.71 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 13 | 0.71 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 5 | 0.71 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 18 | 0.71 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 14 | 0.71 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 4 | 0.71 |
| (2,2747) | 1:122:A:LEU:HD23 | 1:121:A:GLY:H | 19 | 0.71 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 16 | 0.71 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 3 | 0.71 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 7 | 0.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 16 | 0.71 |
| (2,2314) | 1:77:A:LEU:HD22 | 1:125:A:PHE:HZ | 14 | 0.71 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 1 | 0.71 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD11 | 5 | 0.71 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 4 | 0.71 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 16 | 0.71 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 17 | 0.71 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 8 | 0.71 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 12 | 0.71 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 17 | 0.71 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 19 | 0.71 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 18 | 0.71 |
| (2,1980) | 1:62:A:LEU:HD21 | 1:63:A:LYS:H | 6 | 0.71 |
| (2,1968) | 1:156:A:PRO:HB2 | 1:154:A:TYR:HE2 | 17 | 0.71 |
| (2,1965) | 1:149:A:ILE:HD11 | 1:150:A:ILE:HA | 7 | 0.71 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 11 | 0.71 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 5 | 0.71 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 14 | 0.71 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 1 | 0.71 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD23 | 14 | 0.71 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 13 | 0.71 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 10 | 0.71 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD12 | 8 | 0.71 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 19 | 0.71 |
| (2,1388) | 1:41:A:VAL:HG23 | 1:42:A:GLY:HA3 | 14 | 0.71 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 15 | 0.71 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 11 | 0.71 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 18 | 0.71 |
| (2,1136) | 1:59:A:ILE:HD12 | 1:136:A:GLN:HB2 | 12 | 0.71 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 1 | 0.71 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 9 | 0.71 |
| (2,1102) | 1:11:A:LEU:HD22 | 1:12:A:ILE:H | 10 | 0.71 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD13 | 14 | 0.71 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD13 | 5 | 0.71 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD12 | 7 | 0.71 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 16 | 0.71 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 7 | 0.71 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 12 | 0.71 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD11 | 5 | 0.7 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 14 | 0.7 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 1 | 0.7 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 9 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 9 | 0.7 |
| (2,4710) | 1:60:A:PHE:H | 1:61:A:LYS:HB3 | 11 | 0.7 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 9 | 0.7 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 18 | 0.7 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 18 | 0.7 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 2 | 0.7 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 4 | 0.7 |
| (2,4564) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 20 | 0.7 |
| (2,4558) | 1:33:A:VAL:HG13 | 1:127:A:ASN:HD21 | 1 | 0.7 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 15 | 0.7 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 4 | 0.7 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD13 | 11 | 0.7 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 15 | 0.7 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 14 | 0.7 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 9 | 0.7 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 19 | 0.7 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD22 | 8 | 0.7 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 5 | 0.7 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 17 | 0.7 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 5 | 0.7 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 16 | 0.7 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 3 | 0.7 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 14 | 0.7 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 15 | 0.7 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 10 | 0.7 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 16 | 0.7 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 18 | 0.7 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 18 | 0.7 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 12 | 0.7 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 4 | 0.7 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB3 | 14 | 0.7 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 5 | 0.7 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 18 | 0.7 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB2 | 14 | 0.7 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 14 | 0.7 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 20 | 0.7 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 4 | 0.7 |
| (2,3768) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB3 | 9 | 0.7 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 2 | 0.7 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 5 | 0.7 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 8 | 0.7 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 15 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3723) | 1:89:A:VAL:HG11 | 1:82:A:GLU:H | 7 | 0.7 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 20 | 0.7 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 1 | 0.7 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 6 | 0.7 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 10 | 0.7 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD13 | 7 | 0.7 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 8 | 0.7 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 2 | 0.7 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 12 | 0.7 |
| (2,2542) | 1:85:A:SER:HB2 | 1:87:A:VAL:H | 11 | 0.7 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 11 | 0.7 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 8 | 0.7 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 13 | 0.7 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 17 | 0.7 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 18 | 0.7 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 10 | 0.7 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 15 | 0.7 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 8 | 0.7 |
| (2,2263) | 1:134:A:LEU:HD22 | 1:135:A:ALA:HA | 18 | 0.7 |
| (2,2258) | 1:130:A:ALA:HB3 | 1:136:A:GLN:HE22 | 9 | 0.7 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 17 | 0.7 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 15 | 0.7 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 20 | 0.7 |
| (2,2078) | 1:155:A:THR:HG22 | 1:139:A:ARG:HA | 5 | 0.7 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD13 | 7 | 0.7 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 14 | 0.7 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 2 | 0.7 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 6 | 0.7 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 10 | 0.7 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD11 | 5 | 0.7 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD11 | 10 | 0.7 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 8 | 0.7 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 2 | 0.7 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 8 | 0.7 |
| (2,1102) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 5 | 0.7 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 19 | 0.7 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 13 | 0.7 |
| (2,1078) | 1:139:A:ARG:HD3 | 1:143:A:MET:HE2 | 14 | 0.7 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 1 | 0.7 |
| (2,550) | 1:143:A:MET:HE1 | 1:150:A:ILE:HG13 | 15 | 0.7 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD11 | 18 | 0.7 |
| (2,346) | 1:89:A:VAL:HG12 | 1:88:A:VAL:HA | 20 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 3 | 0.7 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 4 | 0.7 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 2 | 0.69 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 7 | 0.69 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 4 | 0.69 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 12 | 0.69 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 16 | 0.69 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG11 | 4 | 0.69 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG23 | 16 | 0.69 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 15 | 0.69 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 8 | 0.69 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 5 | 0.69 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD3 | 1 | 0.69 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 2 | 0.69 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 19 | 0.69 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 3 | 0.69 |
| (2,4492) | 1:31:A:ILE:HD11 | 1:130:A:ALA:HA | 18 | 0.69 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 13 | 0.69 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HA | 5 | 0.69 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 3 | 0.69 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 17 | 0.69 |
| (2,4435) | 1:59:A:ILE:HD11 | 1:159:A:ILE:HG12 | 13 | 0.69 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD23 | 19 | 0.69 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 16 | 0.69 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 8 | 0.69 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 4 | 0.69 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 12 | 0.69 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 2 | 0.69 |
| (2,4197) | 1:160:A:ARG:HD3 | 1:59:A:ILE:H | 7 | 0.69 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 20 | 0.69 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 16 | 0.69 |
| (2,4119) | 1:5:A:VAL:HG23 | 1:4:A:THR:HB | 19 | 0.69 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 3 | 0.69 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 10 | 0.69 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 9 | 0.69 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 11 | 0.69 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 12 | 0.69 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 1 | 0.69 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG23 | 12 | 0.69 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 3 | 0.69 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 17 | 0.69 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 16 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 19 | 0.69 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 11 | 0.69 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 11 | 0.69 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 14 | 0.69 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 6 | 0.69 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 14 | 0.69 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG22 | 20 | 0.69 |
| (2,3723) | 1:89:A:VAL:HG11 | 1:82:A:GLU:H | 12 | 0.69 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 17 | 0.69 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 5 | 0.69 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 7 | 0.69 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 9 | 0.69 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 2 | 0.69 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 4 | 0.69 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG21 | 6 | 0.69 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 15 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 5 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 15 | 0.69 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG23 | 17 | 0.69 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB3 | 13 | 0.69 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 9 | 0.69 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 1 | 0.69 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 1 | 0.69 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 10 | 0.69 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 20 | 0.69 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 19 | 0.69 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 20 | 0.69 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 7 | 0.69 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 13 | 0.69 |
| (2,2314) | 1:77:A:LEU:HD22 | 1:125:A:PHE:HZ | 19 | 0.69 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 15 | 0.69 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 16 | 0.69 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 1 | 0.69 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 3 | 0.69 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD11 | 4 | 0.69 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 6 | 0.69 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 12 | 0.69 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 1 | 0.69 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 14 | 0.69 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 4 | 0.69 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 16 | 0.69 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 9 | 0.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 14 | 0.69 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 18 | 0.69 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 1 | 0.69 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 6 | 0.69 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 19 | 0.69 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 4 | 0.69 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD11 | 18 | 0.69 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 2 | 0.69 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 11 | 0.69 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG22 | 15 | 0.69 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 1 | 0.69 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD13 | 16 | 0.69 |
| (2,1388) | 1:41:A:VAL:HG22 | 1:42:A:GLY:HA3 | 1 | 0.69 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 2 | 0.69 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 3 | 0.69 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 4 | 0.69 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 20 | 0.69 |
| (2,1136) | 1:59:A:ILE:HD13 | 1:136:A:GLN:HB2 | 16 | 0.69 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD13 | 15 | 0.69 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 11 | 0.69 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG22 | 3 | 0.69 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 9 | 0.69 |
| (2,521) | 1:122:A:LEU:HD12 | 1:49:A:TYR:HD2 | 16 | 0.69 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 8 | 0.69 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 2 | 0.69 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 19 | 0.69 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 14 | 0.69 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 15 | 0.69 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 20 | 0.68 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 3 | 0.68 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 1 | 0.68 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 8 | 0.68 |
| (2,4817) | 1:49:A:TYR:H | 1:33:A:VAL:HG22 | 10 | 0.68 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 9 | 0.68 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 1 | 0.68 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 17 | 0.68 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 8 | 0.68 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG13 | 11 | 0.68 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG3 | 6 | 0.68 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 2 | 0.68 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 12 | 0.68 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 4 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 9 | 0.68 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 14 | 0.68 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 13 | 0.68 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 17 | 0.68 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD11 | 6 | 0.68 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 2 | 0.68 |
| (2,4493) | 1:29:A:LEU:HD23 | 1:130:A:ALA:HA | 11 | 0.68 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 16 | 0.68 |
| (2,4435) | 1:59:A:ILE:HD12 | 1:159:A:ILE:HG12 | 3 | 0.68 |
| (2,4435) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HG12 | 10 | 0.68 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 8 | 0.68 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 16 | 0.68 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 8 | 0.68 |
| (2,4267) | 1:52:A:ARG:HD2 | 1:33:A:VAL:HA | 13 | 0.68 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 7 | 0.68 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 8 | 0.68 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 18 | 0.68 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 4 | 0.68 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 16 | 0.68 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD21 | 10 | 0.68 |
| (2,4119) | 1:5:A:VAL:HG21 | 1:4:A:THR:HB | 20 | 0.68 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 19 | 0.68 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD2 | 12 | 0.68 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:34:A:SER:H | 15 | 0.68 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 9 | 0.68 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 11 | 0.68 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 17 | 0.68 |
| (2,4065) | 1:81:A:LEU:HD11 | 1:135:A:ALA:H | 3 | 0.68 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 7 | 0.68 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 14 | 0.68 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 11 | 0.68 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG23 | 9 | 0.68 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 2 | 0.68 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 16 | 0.68 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 20 | 0.68 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 15 | 0.68 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 3 | 0.68 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 17 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 16 | 0.68 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 17 | 0.68 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 10 | 0.68 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 11 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 17 | 0.68 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 15 | 0.68 |
| (2,3709) | 1:92:A:LEU:HD11 | 1:79:A:SER:HB3 | 13 | 0.68 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 6 | 0.68 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 5 | 0.68 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 13 | 0.68 |
| (2,3618) | 1:32:A:ASP:HB3 | 1:31:A:ILE:HG22 | 14 | 0.68 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG23 | 12 | 0.68 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 19 | 0.68 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 8 | 0.68 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 10 | 0.68 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 2 | 0.68 |
| (2,3450) | 1:130:A:ALA:HB3 | 1:132:A:HIS:H | 19 | 0.68 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 7 | 0.68 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 14 | 0.68 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 7 | 0.68 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 3 | 0.68 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 5 | 0.68 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD22 | 13 | 0.68 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 14 | 0.68 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 20 | 0.68 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 2 | 0.68 |
| (2,2747) | 1:122:A:LEU:HD21 | 1:121:A:GLY:H | 7 | 0.68 |
| (2,2747) | 1:122:A:LEU:HD21 | 1:121:A:GLY:H | 9 | 0.68 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 14 | 0.68 |
| (2,2580) | 1:99:A:ARG:H | 1:96:A:ALA:HB3 | 14 | 0.68 |
| (2,2434) | 1:19:A:ASN:H | 1:19:A:ASN:HB2 | 6 | 0.68 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 20 | 0.68 |
| (2,2314) | 1:77:A:LEU:HD21 | 1:125:A:PHE:HZ | 4 | 0.68 |
| (2,2287) | 1:161:A:HIS:HB2 | 1:161:A:HIS:HD2 | 3 | 0.68 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 6 | 0.68 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 12 | 0.68 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD11 | 1 | 0.68 |
| (2,2078) | 1:155:A:THR:HG22 | 1:139:A:ARG:HA | 7 | 0.68 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 10 | 0.68 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 13 | 0.68 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 1 | 0.68 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 4 | 0.68 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 10 | 0.68 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 15 | 0.68 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 5 | 0.68 |
| (2,1965) | 1:149:A:ILE:HD11 | 1:150:A:ILE:HA | 19 | 0.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 1 | 0.68 |
| (2,1897) | 1:115:A:ILE:HD11 | 1:116:A:GLU:HA | 4 | 0.68 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 15 | 0.68 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 15 | 0.68 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD13 | 2 | 0.68 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 2 | 0.68 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 18 | 0.68 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 10 | 0.68 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 1 | 0.68 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 7 | 0.68 |
| (2,1134) | 1:59:A:ILE:HD11 | 1:159:A:ILE:H | 2 | 0.68 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD13 | 4 | 0.68 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 20 | 0.68 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 10 | 0.68 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 19 | 0.68 |
| (2,629) | 1:129:A:VAL:HG21 | 1:77:A:LEU:HD12 | 16 | 0.68 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 1 | 0.68 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 6 | 0.68 |
| (2,270) | 1:109:A:ILE:HD12 | 1:110:A:PHE:H | 14 | 0.68 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 17 | 0.68 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 8 | 0.68 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 4 | 0.67 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 17 | 0.67 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 5 | 0.67 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 17 | 0.67 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB2 | 2 | 0.67 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 19 | 0.67 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 12 | 0.67 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 12 | 0.67 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 1 | 0.67 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 18 | 0.67 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 1 | 0.67 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 4 | 0.67 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 12 | 0.67 |
| (2,4785) | 1:23:A:GLY:H | 1:24:A:PRO:HB3 | 19 | 0.67 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG12 | 20 | 0.67 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 3 | 0.67 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 6 | 0.67 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 10 | 0.67 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 11 | 0.67 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 19 | 0.67 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 9 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 15 | 0.67 |
| (2,4493) | 1:29:A:LEU:HD23 | 1:130:A:ALA:HA | 4 | 0.67 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 2 | 0.67 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 3 | 0.67 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 20 | 0.67 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 17 | 0.67 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 3 | 0.67 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 4 | 0.67 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 4 | 0.67 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 7 | 0.67 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 19 | 0.67 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 5 | 0.67 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 6 | 0.67 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 19 | 0.67 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD2 | 18 | 0.67 |
| (2,4182) | 1:141:A:LEU:HD12 | 1:143:A:MET:HG2 | 6 | 0.67 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 14 | 0.67 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD22 | 11 | 0.67 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 9 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 1 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 5 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 8 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 12 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 16 | 0.67 |
| (2,4096) | 1:59:A:ILE:HG23 | 1:136:A:GLN:H | 17 | 0.67 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 5 | 0.67 |
| (2,4083) | 1:126:A:ILE:HD13 | 1:74:A:PHE:HB3 | 6 | 0.67 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 8 | 0.67 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 8 | 0.67 |
| (2,4081) | 1:115:A:ILE:HD11 | 1:109:A:ILE:H | 12 | 0.67 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 14 | 0.67 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 1 | 0.67 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 13 | 0.67 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 16 | 0.67 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 8 | 0.67 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD21 | 9 | 0.67 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 18 | 0.67 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 6 | 0.67 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 3 | 0.67 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 2 | 0.67 |
| (2,3803) | 1:129:A:VAL:HG22 | 1:125:A:PHE:HD2 | 15 | 0.67 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 12 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 20 | 0.67 |
| (2,3762) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 10 | 0.67 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 4 | 0.67 |
| (2,3687) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 20 | 0.67 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 8 | 0.67 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 10 | 0.67 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 19 | 0.67 |
| (2,3640) | 1:79:A:SER:HB2 | 1:82:A:GLU:HB2 | 19 | 0.67 |
| (2,3572) | 1:152:A:LYS:HG3 | 1:76:A:TRP:HE1 | 12 | 0.67 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 16 | 0.67 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB1 | 7 | 0.67 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 20 | 0.67 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 2 | 0.67 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 4 | 0.67 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 6 | 0.67 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 6 | 0.67 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 13 | 0.67 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 16 | 0.67 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 8 | 0.67 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 10 | 0.67 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 14 | 0.67 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 7 | 0.67 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 19 | 0.67 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 18 | 0.67 |
| (2,2384) | 1:60:A:PHE:HB3 | 1:57:A:LEU:HB3 | 4 | 0.67 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 10 | 0.67 |
| (2,2314) | 1:77:A:LEU:HD22 | 1:125:A:PHE:HZ | 11 | 0.67 |
| (2,2258) | 1:130:A:ALA:HB2 | 1:136:A:GLN:HE22 | 5 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 9 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 13 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 18 | 0.67 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD11 | 19 | 0.67 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 12 | 0.67 |
| (2,2078) | 1:155:A:THR:HG22 | 1:139:A:ARG:HA | 6 | 0.67 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 1 | 0.67 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 2 | 0.67 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 9 | 0.67 |
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG21 | 10 | 0.67 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD23 | 4 | 0.67 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD12 | 11 | 0.67 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD11 | 15 | 0.67 |
| (2,1342) | 1:59:A:ILE:HG23 | 1:136:A:GLN:HB2 | 5 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 17 | 0.67 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 8 | 0.67 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 13 | 0.67 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 19 | 0.67 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 4 | 0.67 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 1 | 0.67 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 9 | 0.67 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 2 | 0.67 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG22 | 5 | 0.67 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 3 | 0.67 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 5 | 0.67 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 13 | 0.67 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 19 | 0.67 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 9 | 0.67 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 7 | 0.67 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 17 | 0.67 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 1 | 0.67 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD12 | 11 | 0.67 |
| (2,550) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG13 | 9 | 0.67 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD11 | 14 | 0.67 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD13 | 20 | 0.67 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 8 | 0.67 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 11 | 0.67 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD12 | 9 | 0.67 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 8 | 0.67 |
| (2,270) | 1:109:A:ILE:HD11 | 1:110:A:PHE:H | 15 | 0.67 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 6 | 0.66 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 14 | 0.66 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 8 | 0.66 |
| (2,4744) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 16 | 0.66 |
| (2,4714) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 2 | 0.66 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 10 | 0.66 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 5 | 0.66 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 6 | 0.66 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 2 | 0.66 |
| (2,4581) | 1:147:A:ASP:HB2 | 1:148:A:GLU:HA | 10 | 0.66 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 13 | 0.66 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 18 | 0.66 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 20 | 0.66 |
| (2,4570) | 1:149:A:ILE:HG21 | 1:148:A:GLU:HA | 1 | 0.66 |
| (2,4566) | 1:157:A:SER:HB2 | 1:139:A:ARG:HD2 | 14 | 0.66 |
| (2,4564) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 13 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD21 | 13 | 0.66 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 12 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HB | 4 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:141:A:LEU:HB3 | 7 | 0.66 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 18 | 0.66 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 14 | 0.66 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 15 | 0.66 |
| (2,4396) | 1:61:A:LYS:HD3 | 1:61:A:LYS:HA | 4 | 0.66 |
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD3 | 10 | 0.66 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 15 | 0.66 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 6 | 0.66 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 17 | 0.66 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 11 | 0.66 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG22 | 20 | 0.66 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD23 | 2 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 12 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 14 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 15 | 0.66 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 16 | 0.66 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 14 | 0.66 |
| (2,4084) | 1:51:A:ILE:HD11 | 1:49:A:TYR:H | 7 | 0.66 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 9 | 0.66 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 1 | 0.66 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 9 | 0.66 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 17 | 0.66 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 20 | 0.66 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG23 | 6 | 0.66 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 4 | 0.66 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 20 | 0.66 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 3 | 0.66 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 3 | 0.66 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 11 | 0.66 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 4 | 0.66 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 3 | 0.66 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 5 | 0.66 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG21 | 11 | 0.66 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 14 | 0.66 |
| (2,3706) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 14 | 0.66 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 12 | 0.66 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 14 | 0.66 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 13 | 0.66 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 20 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG21 | 4 | 0.66 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 7 | 0.66 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 1 | 0.66 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE2 | 8 | 0.66 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 3 | 0.66 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 19 | 0.66 |
| (2,3423) | 1:125:A:PHE:H | 1:123:A:GLU:HG2 | 16 | 0.66 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 2 | 0.66 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 14 | 0.66 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 5 | 0.66 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 5 | 0.66 |
| (2,2782) | 1:44:A:GLY:HA2 | 1:41:A:VAL:H | 3 | 0.66 |
| (2,2747) | 1:122:A:LEU:HD21 | 1:121:A:GLY:H | 1 | 0.66 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 8 | 0.66 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 17 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 1 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 2 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 3 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 5 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 7 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 8 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 10 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 12 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 15 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 17 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 18 | 0.66 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 20 | 0.66 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 7 | 0.66 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 13 | 0.66 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 6 | 0.66 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD11 | 2 | 0.66 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD12 | 8 | 0.66 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 15 | 0.66 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 20 | 0.66 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD12 | 5 | 0.66 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 5 | 0.66 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 16 | 0.66 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 1 | 0.66 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 13 | 0.66 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 15 | 0.66 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 20 | 0.66 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 16 | 0.66 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 19 | 0.66 |
| (2,1788) | 1:83:A:ARG:HG3 | 1:82:A:GLU:H | 19 | 0.66 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 17 | 0.66 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 4 | 0.66 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 14 | 0.66 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 20 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 5 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 12 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 14 | 0.66 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 15 | 0.66 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 14 | 0.66 |
| (2,1209) | 1:29:A:LEU:HD21 | 1:56:A:ASN:H | 16 | 0.66 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 12 | 0.66 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 16 | 0.66 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 18 | 0.66 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG11 | 6 | 0.66 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 14 | 0.66 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG21 | 5 | 0.66 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG21 | 6 | 0.66 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG21 | 7 | 0.66 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG22 | 17 | 0.66 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 1 | 0.66 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 6 | 0.66 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 13 | 0.66 |
| (2,550) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG13 | 17 | 0.66 |
| (2,550) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG13 | 20 | 0.66 |
| (2,549) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG12 | 18 | 0.66 |
| (2,346) | 1:89:A:VAL:HG13 | 1:88:A:VAL:HA | 13 | 0.66 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 4 | 0.66 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 5 | 0.66 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 12 | 0.66 |
| (2,224) | 1:155:A:THR:HG23 | 1:139:A:ARG:HG2 | 17 | 0.66 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 10 | 0.66 |
| (2,160) | 1:65:A:SER:HB2 | 1:62:A:LEU:HD22 | 6 | 0.66 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 4 | 0.65 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 6 | 0.65 |
| (2,4891) | 1:143:A:MET:H | 1:150:A:ILE:HD12 | 16 | 0.65 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD11 | 17 | 0.65 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 3 | 0.65 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG22 | 16 | 0.65 |
| (2,4570) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 3 | 0.65 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 20 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 17 | 0.65 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 1 | 0.65 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD13 | 1 | 0.65 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 16 | 0.65 |
| (2,4475) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 8 | 0.65 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 12 | 0.65 |
| (2,4473) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HB2 | 5 | 0.65 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 6 | 0.65 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 9 | 0.65 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 12 | 0.65 |
| (2,4311) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HD3 | 14 | 0.65 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 17 | 0.65 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 8 | 0.65 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 11 | 0.65 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG23 | 8 | 0.65 |
| (2,4209) | 1:61:A:LYS:HE3 | 1:62:A:LEU:HD11 | 7 | 0.65 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD2 | 14 | 0.65 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD21 | 3 | 0.65 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD21 | 13 | 0.65 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD23 | 19 | 0.65 |
| (2,4119) | 1:5:A:VAL:HG21 | 1:4:A:THR:HB | 10 | 0.65 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 6 | 0.65 |
| (2,4096) | 1:59:A:ILE:HG21 | 1:136:A:GLN:H | 7 | 0.65 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:49:A:TYR:H | 14 | 0.65 |
| (2,4081) | 1:115:A:ILE:HD12 | 1:109:A:ILE:H | 13 | 0.65 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 2 | 0.65 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 11 | 0.65 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 18 | 0.65 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG23 | 6 | 0.65 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 6 | 0.65 |
| (2,3991) | 1:26:A:SER:HB2 | 1:57:A:LEU:HD22 | 6 | 0.65 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG22 | 2 | 0.65 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 13 | 0.65 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 3 | 0.65 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 9 | 0.65 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 9 | 0.65 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 16 | 0.65 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 7 | 0.65 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 12 | 0.65 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 15 | 0.65 |
| (2,3754) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 20 | 0.65 |
| (2,3691) | 1:150:A:ILE:HD12 | 1:143:A:MET:HB2 | 16 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 13 | 0.65 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 12 | 0.65 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 3 | 0.65 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 2 | 0.65 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 2 | 0.65 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 6 | 0.65 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG21 | 17 | 0.65 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 12 | 0.65 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 7 | 0.65 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 18 | 0.65 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 19 | 0.65 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD23 | 10 | 0.65 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 16 | 0.65 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 7 | 0.65 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 19 | 0.65 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 19 | 0.65 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 9 | 0.65 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 11 | 0.65 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 8 | 0.65 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 6 | 0.65 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 11 | 0.65 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 14 | 0.65 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 19 | 0.65 |
| (2,2314) | 1:77:A:LEU:HD23 | 1:125:A:PHE:HZ | 8 | 0.65 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 13 | 0.65 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 20 | 0.65 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 8 | 0.65 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 10 | 0.65 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 9 | 0.65 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 17 | 0.65 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 3 | 0.65 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 7 | 0.65 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 17 | 0.65 |
| (2,1672) | 1:31:A:ILE:HG21 | 1:127:A:ASN:H | 1 | 0.65 |
| (2,1672) | 1:31:A:ILE:HG22 | 1:127:A:ASN:H | 6 | 0.65 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 7 | 0.65 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG22 | 8 | 0.65 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 4 | 0.65 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 13 | 0.65 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 14 | 0.65 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 10 | 0.65 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 20 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 12 | 0.65 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 4 | 0.65 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 4 | 0.65 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 14 | 0.65 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 15 | 0.65 |
| (2,1101) | 1:11:A:LEU:HD12 | 1:12:A:ILE:H | 1 | 0.65 |
| (2,1101) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 19 | 0.65 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 10 | 0.65 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 20 | 0.65 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 15 | 0.65 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG11 | 10 | 0.65 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG21 | 20 | 0.65 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 16 | 0.65 |
| (2,550) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG13 | 16 | 0.65 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 5 | 0.65 |
| (2,480) | 1:53:A:VAL:HG22 | 1:31:A:ILE:HD11 | 10 | 0.65 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 10 | 0.65 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 15 | 0.65 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 8 | 0.64 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 16 | 0.64 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 4 | 0.64 |
| (2,4772) | 1:10:A:ARG:H | 1:10:A:ARG:HD3 | 14 | 0.64 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 3 | 0.64 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 4 | 0.64 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 20 | 0.64 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 17 | 0.64 |
| (2,4564) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 6 | 0.64 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 11 | 0.64 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 14 | 0.64 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 8 | 0.64 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 3 | 0.64 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 12 | 0.64 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB3 | 8 | 0.64 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 7 | 0.64 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 7 | 0.64 |
| (2,4365) | 1:145:A:LEU:HD22 | 1:146:A:GLN:HG3 | 10 | 0.64 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 17 | 0.64 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 17 | 0.64 |
| (2,4260) | 1:55:A:THR:HG21 | 1:63:A:LYS:HE3 | 14 | 0.64 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 15 | 0.64 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 4 | 0.64 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 3 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD21 | 8 | 0.64 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD21 | 16 | 0.64 |
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD22 | 17 | 0.64 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 13 | 0.64 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD13 | 16 | 0.64 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD13 | 18 | 0.64 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 3 | 0.64 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 19 | 0.64 |
| (2,4119) | 1:5:A:VAL:HG23 | 1:4:A:THR:HB | 6 | 0.64 |
| (2,4111) | 1:96:A:ALA:HB2 | 1:99:A:ARG:HD3 | 7 | 0.64 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:34:A:SER:H | 17 | 0.64 |
| (2,4083) | 1:126:A:ILE:HD12 | 1:74:A:PHE:HB3 | 4 | 0.64 |
| (2,4057) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HG2 | 19 | 0.64 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 3 | 0.64 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 5 | 0.64 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 8 | 0.64 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 10 | 0.64 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 19 | 0.64 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 18 | 0.64 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 11 | 0.64 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 13 | 0.64 |
| (2,4004) | 1:159:A:ILE:HD12 | 1:141:A:LEU:HG | 11 | 0.64 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 19 | 0.64 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 8 | 0.64 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 11 | 0.64 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 19 | 0.64 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 1 | 0.64 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 3 | 0.64 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 5 | 0.64 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 8 | 0.64 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 9 | 0.64 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 11 | 0.64 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 12 | 0.64 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 14 | 0.64 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 4 | 0.64 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 5 | 0.64 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 17 | 0.64 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG13 | 5 | 0.64 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 10 | 0.64 |
| (2,3657) | 1:66:A:THR:HG23 | 1:68:A:ARG:H | 6 | 0.64 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 7 | 0.64 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 15 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 4 | 0.64 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 9 | 0.64 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 16 | 0.64 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 12 | 0.64 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 3 | 0.64 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 4 | 0.64 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 11 | 0.64 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 3 | 0.64 |
| (2,2747) | 1:122:A:LEU:HD23 | 1:121:A:GLY:H | 11 | 0.64 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 7 | 0.64 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 16 | 0.64 |
| (2,2705) | 1:124:A:GLN:HG3 | 1:124:A:GLN:HE22 | 18 | 0.64 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 4 | 0.64 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 8 | 0.64 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 9 | 0.64 |
| (2,2370) | 1:145:A:LEU:HD23 | 1:136:A:GLN:HE22 | 20 | 0.64 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD23 | 2 | 0.64 |
| (2,2292) | 1:77:A:LEU:HD13 | 1:74:A:PHE:HA | 7 | 0.64 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 5 | 0.64 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 19 | 0.64 |
| (2,2258) | 1:130:A:ALA:HB3 | 1:136:A:GLN:HE22 | 16 | 0.64 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 14 | 0.64 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 18 | 0.64 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 1 | 0.64 |
| (2,2078) | 1:155:A:THR:HG21 | 1:139:A:ARG:HA | 11 | 0.64 |
| (2,2078) | 1:155:A:THR:HG23 | 1:139:A:ARG:HA | 18 | 0.64 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 2 | 0.64 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 14 | 0.64 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 20 | 0.64 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 12 | 0.64 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 20 | 0.64 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 12 | 0.64 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 13 | 0.64 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 10 | 0.64 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 20 | 0.64 |
| (2,1388) | 1:41:A:VAL:HG21 | 1:42:A:GLY:HA3 | 4 | 0.64 |
| (2,1209) | 1:29:A:LEU:HD23 | 1:56:A:ASN:H | 12 | 0.64 |
| (2,1209) | 1:29:A:LEU:HD22 | 1:56:A:ASN:H | 17 | 0.64 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 8 | 0.64 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 20 | 0.64 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD13 | 20 | 0.64 |
| (2,918) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HE2 | 20 | 0.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 1 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 6 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 8 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 9 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 12 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 14 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 17 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 18 | 0.64 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 20 | 0.64 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG12 | 7 | 0.64 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD12 | 13 | 0.64 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG21 | 18 | 0.64 |
| (2,510) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HD12 | 5 | 0.64 |
| (2,346) | 1:89:A:VAL:HG11 | 1:88:A:VAL:HA | 6 | 0.64 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 15 | 0.63 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 16 | 0.63 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 13 | 0.63 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 4 | 0.63 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 20 | 0.63 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 20 | 0.63 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 6 | 0.63 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 18 | 0.63 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 20 | 0.63 |
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 12 | 0.63 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 15 | 0.63 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 18 | 0.63 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 15 | 0.63 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD11 | 18 | 0.63 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 13 | 0.63 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 11 | 0.63 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 11 | 0.63 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 12 | 0.63 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 8 | 0.63 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 15 | 0.63 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 1 | 0.63 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 2 | 0.63 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 14 | 0.63 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD21 | 14 | 0.63 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 7 | 0.63 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 14 | 0.63 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 16 | 0.63 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 18 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4065) | 1:81:A:LEU:HD12 | 1:135:A:ALA:H | 17 | 0.63 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 6 | 0.63 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 9 | 0.63 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG22 | 17 | 0.63 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 9 | 0.63 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 13 | 0.63 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG22 | 12 | 0.63 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 20 | 0.63 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 10 | 0.63 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 7 | 0.63 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 3 | 0.63 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 13 | 0.63 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG21 | 18 | 0.63 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 2 | 0.63 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 10 | 0.63 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 15 | 0.63 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 16 | 0.63 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 18 | 0.63 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 19 | 0.63 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 5 | 0.63 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 9 | 0.63 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 20 | 0.63 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 5 | 0.63 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 19 | 0.63 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 18 | 0.63 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 11 | 0.63 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 16 | 0.63 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 19 | 0.63 |
| (2,3687) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 17 | 0.63 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG23 | 1 | 0.63 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 17 | 0.63 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 17 | 0.63 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 11 | 0.63 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 17 | 0.63 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 7 | 0.63 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 18 | 0.63 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 12 | 0.63 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 3 | 0.63 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 2 | 0.63 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 12 | 0.63 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 8 | 0.63 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 20 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 6 | 0.63 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 17 | 0.63 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 7 | 0.63 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 6 | 0.63 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 10 | 0.63 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 9 | 0.63 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 18 | 0.63 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 3 | 0.63 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 3 | 0.63 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG22 | 18 | 0.63 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD23 | 6 | 0.63 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 2 | 0.63 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 13 | 0.63 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 8 | 0.63 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 11 | 0.63 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 13 | 0.63 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 9 | 0.63 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 18 | 0.63 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 14 | 0.63 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 1 | 0.63 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 1 | 0.63 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 16 | 0.63 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 16 | 0.63 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG21 | 8 | 0.63 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 14 | 0.63 |
| (2,1134) | 1:59:A:ILE:HD11 | 1:159:A:ILE:H | 6 | 0.63 |
| (2,941) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 19 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 2 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 3 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 4 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 5 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 7 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 10 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 11 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 13 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 15 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 16 | 0.63 |
| (2,714) | 1:120:A:GLN:HG3 | 1:120:A:GLN:HE22 | 19 | 0.63 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 20 | 0.63 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD12 | 8 | 0.63 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 11 | 0.63 |
| (2,621) | 1:89:A:VAL:HG12 | 1:129:A:VAL:HG21 | 12 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG21 | 14 | 0.63 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 3 | 0.63 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 3 | 0.63 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 14 | 0.63 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 15 | 0.63 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 20 | 0.63 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG22 | 12 | 0.63 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 20 | 0.63 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 1 | 0.63 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 13 | 0.63 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD11 | 14 | 0.63 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD2 | 11 | 0.63 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 3 | 0.62 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 17 | 0.62 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 3 | 0.62 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 6 | 0.62 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 3 | 0.62 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 13 | 0.62 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 2 | 0.62 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 2 | 0.62 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 2 | 0.62 |
| (2,4727) | 1:33:A:VAL:HG23 | 1:50:A:GLU:H | 11 | 0.62 |
| (2,4701) | 1:44:A:GLY:H | 1:46:A:PHE:HD1 | 10 | 0.62 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 11 | 0.62 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG3 | 4 | 0.62 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG3 | 20 | 0.62 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 14 | 0.62 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 18 | 0.62 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:84:A:GLU:H | 3 | 0.62 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 12 | 0.62 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HA | 4 | 0.62 |
| (2,4471) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HA | 18 | 0.62 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 4 | 0.62 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 4 | 0.62 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 14 | 0.62 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 19 | 0.62 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 16 | 0.62 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG23 | 3 | 0.62 |
| (2,4204) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD22 | 8 | 0.62 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 2 | 0.62 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 8 | 0.62 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 19 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4154) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD21 | 5 | 0.62 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 12 | 0.62 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD11 | 2 | 0.62 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HD3 | 2 | 0.62 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HE1 | 11 | 0.62 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 15 | 0.62 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 2 | 0.62 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 4 | 0.62 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 8 | 0.62 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:49:A:TYR:H | 4 | 0.62 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 18 | 0.62 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 17 | 0.62 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 19 | 0.62 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG23 | 7 | 0.62 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 8 | 0.62 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 15 | 0.62 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG22 | 1 | 0.62 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 5 | 0.62 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 12 | 0.62 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG21 | 17 | 0.62 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 6 | 0.62 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 13 | 0.62 |
| (2,3843) | 1:55:A:THR:HG21 | 1:55:A:THR:HA | 17 | 0.62 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HA | 7 | 0.62 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 14 | 0.62 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 16 | 0.62 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 15 | 0.62 |
| (2,3765) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 13 | 0.62 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 15 | 0.62 |
| (2,3723) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 10 | 0.62 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 4 | 0.62 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 10 | 0.62 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 7 | 0.62 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG22 | 19 | 0.62 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 11 | 0.62 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 1 | 0.62 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 5 | 0.62 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD13 | 19 | 0.62 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 16 | 0.62 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 1 | 0.62 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 5 | 0.62 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 13 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 20 | 0.62 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 15 | 0.62 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 18 | 0.62 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 11 | 0.62 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 18 | 0.62 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 19 | 0.62 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 10 | 0.62 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 1 | 0.62 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 3 | 0.62 |
| (2,2372) | 1:33:A:VAL:HG22 | 1:74:A:PHE:HD2 | 18 | 0.62 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 9 | 0.62 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 20 | 0.62 |
| (2,2263) | 1:134:A:LEU:HD22 | 1:135:A:ALA:HA | 1 | 0.62 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD1 | 8 | 0.62 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 9 | 0.62 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 19 | 0.62 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 15 | 0.62 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 6 | 0.62 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 11 | 0.62 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 4 | 0.62 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG23 | 13 | 0.62 |
| (2,1965) | 1:149:A:ILE:HD13 | 1:150:A:ILE:HA | 10 | 0.62 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 16 | 0.62 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 1 | 0.62 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 11 | 0.62 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 16 | 0.62 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 6 | 0.62 |
| (2,1401) | 1:39:A:VAL:HG22 | 1:46:A:PHE:HE2 | 2 | 0.62 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 4 | 0.62 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 7 | 0.62 |
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 5 | 0.62 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 1 | 0.62 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 11 | 0.62 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 15 | 0.62 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 20 | 0.62 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD12 | 3 | 0.62 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 18 | 0.62 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 4 | 0.62 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 8 | 0.62 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 12 | 0.62 |
| (2,748) | 1:122:A:LEU:HD23 | 1:122:A:LEU:H | 13 | 0.62 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG11 | 12 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG11 | 18 | 0.62 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG23 | 16 | 0.62 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 2 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 6 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 11 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 12 | 0.62 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD11 | 17 | 0.62 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 1 | 0.62 |
| (2,247) | 1:150:A:ILE:HG23 | 1:76:A:TRP:HZ2 | 8 | 0.62 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 12 | 0.62 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG22 | 3 | 0.62 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 5 | 0.62 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 11 | 0.62 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 11 | 0.61 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 18 | 0.61 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 12 | 0.61 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 15 | 0.61 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 11 | 0.61 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 14 | 0.61 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 8 | 0.61 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG12 | 6 | 0.61 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 11 | 0.61 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG3 | 7 | 0.61 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 15 | 0.61 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 12 | 0.61 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 19 | 0.61 |
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 20 | 0.61 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD22 | 9 | 0.61 |
| (2,4506) | 1:77:A:LEU:HD13 | 1:81:A:LEU:HA | 5 | 0.61 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 15 | 0.61 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 18 | 0.61 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 11 | 0.61 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 12 | 0.61 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 3 | 0.61 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 2 | 0.61 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 1 | 0.61 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 20 | 0.61 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 8 | 0.61 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 14 | 0.61 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD1 | 12 | 0.61 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 3 | 0.61 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 11 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 8 | 0.61 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 13 | 0.61 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 16 | 0.61 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 10 | 0.61 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD22 | 4 | 0.61 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD22 | 11 | 0.61 |
| (2,4111) | 1:96:A:ALA:HB1 | 1:99:A:ARG:HD2 | 6 | 0.61 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 5 | 0.61 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 4 | 0.61 |
| (2,4047) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 15 | 0.61 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 16 | 0.61 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 8 | 0.61 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 18 | 0.61 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 9 | 0.61 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG21 | 11 | 0.61 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 16 | 0.61 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 7 | 0.61 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 13 | 0.61 |
| (2,3843) | 1:55:A:THR:HG23 | 1:55:A:THR:HA | 4 | 0.61 |
| (2,3803) | 1:129:A:VAL:HG21 | 1:125:A:PHE:HD2 | 14 | 0.61 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD13 | 11 | 0.61 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG22 | 7 | 0.61 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 2 | 0.61 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 7 | 0.61 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 1 | 0.61 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 5 | 0.61 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 6 | 0.61 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 8 | 0.61 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 10 | 0.61 |
| (2,3723) | 1:89:A:VAL:HG12 | 1:82:A:GLU:H | 11 | 0.61 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD21 | 2 | 0.61 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 9 | 0.61 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 12 | 0.61 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 10 | 0.61 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 10 | 0.61 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 11 | 0.61 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 20 | 0.61 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 16 | 0.61 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 12 | 0.61 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 17 | 0.61 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 7 | 0.61 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 9 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 3 | 0.61 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 13 | 0.61 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 2 | 0.61 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 4 | 0.61 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 16 | 0.61 |
| (2,2338) | 1:29:A:LEU:HD22 | 1:130:A:ALA:H | 19 | 0.61 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 9 | 0.61 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 13 | 0.61 |
| (2,2209) | 1:77:A:LEU:HB2 | 1:77:A:LEU:HD13 | 11 | 0.61 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD13 | 17 | 0.61 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 14 | 0.61 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 2 | 0.61 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 9 | 0.61 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 11 | 0.61 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 17 | 0.61 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 19 | 0.61 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 4 | 0.61 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 14 | 0.61 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 2 | 0.61 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 18 | 0.61 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 5 | 0.61 |
| (2,2005) | 1:51:A:ILE:HD13 | 1:69:A:ARG:HA | 2 | 0.61 |
| (2,1965) | 1:149:A:ILE:HD13 | 1:150:A:ILE:HA | 20 | 0.61 |
| (2,1897) | 1:115:A:ILE:HD13 | 1:116:A:GLU:HA | 7 | 0.61 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 2 | 0.61 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 20 | 0.61 |
| (2,1625) | 1:160:A:ARG:HD3 | 1:159:A:ILE:HB | 13 | 0.61 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 5 | 0.61 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD13 | 14 | 0.61 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 11 | 0.61 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 7 | 0.61 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 15 | 0.61 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 17 | 0.61 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 17 | 0.61 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 19 | 0.61 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 7 | 0.61 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 3 | 0.61 |
| (2,1134) | 1:59:A:ILE:HD11 | 1:159:A:ILE:H | 9 | 0.61 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 12 | 0.61 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 14 | 0.61 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 18 | 0.61 |
| (2,1110) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HD13 | 10 | 0.61 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1101) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 2 | 0.61 |
| (2,879) | 1:113:A:ASN:HA | 1:117:A:GLU:HG3 | 7 | 0.61 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG12 | 9 | 0.61 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG13 | 17 | 0.61 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 13 | 0.61 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 4 | 0.61 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 6 | 0.61 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 9 | 0.61 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 12 | 0.61 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD13 | 14 | 0.61 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG21 | 19 | 0.61 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD11 | 7 | 0.61 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD11 | 18 | 0.61 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 19 | 0.61 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 16 | 0.61 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 3 | 0.61 |
| (2,247) | 1:150:A:ILE:HG23 | 1:76:A:TRP:HZ2 | 6 | 0.61 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 10 | 0.61 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 7 | 0.61 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 19 | 0.61 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 15 | 0.6 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 2 | 0.6 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 8 | 0.6 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 6 | 0.6 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 15 | 0.6 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 7 | 0.6 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 19 | 0.6 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 15 | 0.6 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 16 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG21 | 8 | 0.6 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG12 | 15 | 0.6 |
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 15 | 0.6 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 3 | 0.6 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 5 | 0.6 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 8 | 0.6 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 8 | 0.6 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 12 | 0.6 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 3 | 0.6 |
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 10 | 0.6 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 14 | 0.6 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 15 | 0.6 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 15 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 14 | 0.6 |
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 13 | 0.6 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HA | 19 | 0.6 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 20 | 0.6 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 1 | 0.6 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG13 | 10 | 0.6 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 6 | 0.6 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 9 | 0.6 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 11 | 0.6 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 3 | 0.6 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 19 | 0.6 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 3 | 0.6 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 5 | 0.6 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 6 | 0.6 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 10 | 0.6 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 9 | 0.6 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 14 | 0.6 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 15 | 0.6 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 2 | 0.6 |
| (2,4252) | 1:63:A:LYS:HE2 | 1:60:A:PHE:H | 10 | 0.6 |
| (2,4217) | 1:25:A:PRO:HA | 1:58:A:PRO:HD2 | 5 | 0.6 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 17 | 0.6 |
| (2,4118) | 1:5:A:VAL:HG12 | 1:4:A:THR:HA | 2 | 0.6 |
| (2,4116) | 1:135:A:ALA:HB1 | 1:88:A:VAL:H | 5 | 0.6 |
| (2,4116) | 1:135:A:ALA:HB2 | 1:88:A:VAL:H | 13 | 0.6 |
| (2,4084) | 1:51:A:ILE:HD11 | 1:34:A:SER:H | 2 | 0.6 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:34:A:SER:H | 3 | 0.6 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:34:A:SER:H | 8 | 0.6 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:49:A:TYR:H | 11 | 0.6 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 20 | 0.6 |
| (2,4030) | 1:152:A:LYS:HD3 | 1:76:A:TRP:HD1 | 14 | 0.6 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 17 | 0.6 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 13 | 0.6 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 6 | 0.6 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 8 | 0.6 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 7 | 0.6 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG21 | 15 | 0.6 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 15 | 0.6 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 19 | 0.6 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB2 | 12 | 0.6 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 5 | 0.6 |
| (2,3843) | 1:55:A:THR:HG22 | 1:55:A:THR:HA | 20 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 11 | 0.6 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 3 | 0.6 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:131:A:GLY:H | 19 | 0.6 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD13 | 5 | 0.6 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 17 | 0.6 |
| (2,3765) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 6 | 0.6 |
| (2,3744) | 1:87:A:VAL:HG22 | 1:82:A:GLU:HG3 | 9 | 0.6 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:82:A:GLU:HG3 | 19 | 0.6 |
| (2,3733) | 1:134:A:LEU:HG | 1:87:A:VAL:HG23 | 2 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 2 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 11 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 13 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 14 | 0.6 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 19 | 0.6 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:79:A:SER:HB3 | 20 | 0.6 |
| (2,3657) | 1:66:A:THR:HG21 | 1:68:A:ARG:H | 1 | 0.6 |
| (2,3622) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG12 | 8 | 0.6 |
| (2,3618) | 1:32:A:ASP:HB2 | 1:31:A:ILE:HG22 | 7 | 0.6 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 1 | 0.6 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 3 | 0.6 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 5 | 0.6 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 17 | 0.6 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 6 | 0.6 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 13 | 0.6 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 15 | 0.6 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 5 | 0.6 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 8 | 0.6 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 11 | 0.6 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 3 | 0.6 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 9 | 0.6 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 20 | 0.6 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 10 | 0.6 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 19 | 0.6 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 4 | 0.6 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 5 | 0.6 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 9 | 0.6 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 19 | 0.6 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD21 | 19 | 0.6 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 7 | 0.6 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 8 | 0.6 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 17 | 0.6 |
| (2,2337) | 1:98:A:LEU:HD21 | 1:100:A:GLN:HB2 | 4 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 4 | 0.6 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 4 | 0.6 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 18 | 0.6 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 3 | 0.6 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 9 | 0.6 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD1 | 19 | 0.6 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD13 | 18 | 0.6 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 3 | 0.6 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 11 | 0.6 |
| (2,2181) | 1:53:A:VAL:HG13 | 1:31:A:ILE:HG12 | 13 | 0.6 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 17 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 1 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 3 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 4 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 5 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 6 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 7 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 8 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 10 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 12 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 13 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 14 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 15 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 16 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 18 | 0.6 |
| (2,2118) | 1:24:A:PRO:HB3 | 1:24:A:PRO:HG2 | 20 | 0.6 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 8 | 0.6 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 11 | 0.6 |
| (2,2014) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HD22 | 7 | 0.6 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 10 | 0.6 |
| (2,2014) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HD22 | 15 | 0.6 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG21 | 2 | 0.6 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 8 | 0.6 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 13 | 0.6 |
| (2,1672) | 1:31:A:ILE:HG21 | 1:127:A:ASN:H | 20 | 0.6 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD12 | 7 | 0.6 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 3 | 0.6 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 11 | 0.6 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 16 | 0.6 |
| (2,1303) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HA | 19 | 0.6 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 8 | 0.6 |
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 13 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 15 | 0.6 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 19 | 0.6 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 20 | 0.6 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 5 | 0.6 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 8 | 0.6 |
| (2,1119) | 1:11:A:LEU:HA | 1:12:A:ILE:HD11 | 7 | 0.6 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 1 | 0.6 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 13 | 0.6 |
| (2,748) | 1:122:A:LEU:HD21 | 1:122:A:LEU:H | 7 | 0.6 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG13 | 6 | 0.6 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG22 | 4 | 0.6 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG23 | 19 | 0.6 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG13 | 13 | 0.6 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 1 | 0.6 |
| (2,491) | 1:126:A:ILE:HG21 | 1:123:A:GLU:HG2 | 13 | 0.6 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 18 | 0.6 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG22 | 5 | 0.6 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 9 | 0.6 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD2 | 15 | 0.6 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 10 | 0.59 |
| (2,4943) | 1:140:A:CYS:H | 1:144:A:PHE:HD2 | 7 | 0.59 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB2 | 19 | 0.59 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 13 | 0.59 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD13 | 20 | 0.59 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 8 | 0.59 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 18 | 0.59 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG21 | 1 | 0.59 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 12 | 0.59 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 1 | 0.59 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 19 | 0.59 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 6 | 0.59 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 5 | 0.59 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 14 | 0.59 |
| (2,4570) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 7 | 0.59 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 3 | 0.59 |
| (2,4536) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 7 | 0.59 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 18 | 0.59 |
| (2,4499) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD12 | 10 | 0.59 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD13 | 16 | 0.59 |
| (2,4493) | 1:29:A:LEU:HD23 | 1:130:A:ALA:HA | 17 | 0.59 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HB | 2 | 0.59 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 11 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG13 | 9 | 0.59 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 12 | 0.59 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 19 | 0.59 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 10 | 0.59 |
| (2,4418) | 1:77:A:LEU:HD12 | 1:144:A:PHE:H | 19 | 0.59 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 3 | 0.59 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD23 | 14 | 0.59 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 3 | 0.59 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 4 | 0.59 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 13 | 0.59 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 13 | 0.59 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 19 | 0.59 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 13 | 0.59 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 3 | 0.59 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 13 | 0.59 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 18 | 0.59 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD23 | 15 | 0.59 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 12 | 0.59 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD22 | 13 | 0.59 |
| (2,4091) | 1:31:A:ILE:HD11 | 1:126:A:ILE:HA | 16 | 0.59 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 8 | 0.59 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 15 | 0.59 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 18 | 0.59 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 14 | 0.59 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 7 | 0.59 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE2 | 10 | 0.59 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 7 | 0.59 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 20 | 0.59 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:109:A:ILE:HA | 1 | 0.59 |
| (2,3869) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD21 | 9 | 0.59 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 12 | 0.59 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 6 | 0.59 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 8 | 0.59 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB2 | 17 | 0.59 |
| (2,3810) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 5 | 0.59 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 13 | 0.59 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 2 | 0.59 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 13 | 0.59 |
| (2,3776) | 1:39:A:VAL:HG13 | 1:46:A:PHE:HZ | 13 | 0.59 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 6 | 0.59 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 16 | 0.59 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 1 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 2 | 0.59 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG23 | 15 | 0.59 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 4 | 0.59 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 15 | 0.59 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD22 | 9 | 0.59 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 16 | 0.59 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 6 | 0.59 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 9 | 0.59 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 10 | 0.59 |
| (2,3589) | 1:107:A:ASP:H | 1:106:A:ASP:HB3 | 7 | 0.59 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 9 | 0.59 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 15 | 0.59 |
| (2,3505) | 1:39:A:VAL:HG11 | 1:37:A:GLN:HE22 | 2 | 0.59 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 10 | 0.59 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 3 | 0.59 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG12 | 13 | 0.59 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD13 | 7 | 0.59 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 1 | 0.59 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 10 | 0.59 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 15 | 0.59 |
| (2,3020) | 1:8:A:THR:HG21 | 1:9:A:ARG:H | 17 | 0.59 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 18 | 0.59 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 2 | 0.59 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 15 | 0.59 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 14 | 0.59 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 20 | 0.59 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 6 | 0.59 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 11 | 0.59 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 5 | 0.59 |
| (2,2410) | 1:109:A:ILE:HG23 | 1:114:A:PHE:HB2 | 1 | 0.59 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 12 | 0.59 |
| (2,2372) | 1:33:A:VAL:HG21 | 1:74:A:PHE:HD2 | 19 | 0.59 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 1 | 0.59 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 11 | 0.59 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 1 | 0.59 |
| (2,2263) | 1:134:A:LEU:HD22 | 1:135:A:ALA:HA | 5 | 0.59 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 13 | 0.59 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD13 | 20 | 0.59 |
| (2,2181) | 1:53:A:VAL:HG11 | 1:31:A:ILE:HG12 | 8 | 0.59 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 3 | 0.59 |
| (2,2033) | 1:53:A:VAL:HG23 | 1:54:A:LYS:HB2 | 13 | 0.59 |
| (2,1953) | 1:145:A:LEU:HD22 | 1:141:A:LEU:HB3 | 13 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1915) | 1:134:A:LEU:HD21 | 1:86:A:LYS:HB3 | 6 | 0.59 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 17 | 0.59 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 14 | 0.59 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD22 | 6 | 0.59 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 12 | 0.59 |
| (2,1672) | 1:31:A:ILE:HG22 | 1:127:A:ASN:H | 15 | 0.59 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 17 | 0.59 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD13 | 1 | 0.59 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD12 | 6 | 0.59 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 14 | 0.59 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 2 | 0.59 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 5 | 0.59 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 16 | 0.59 |
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 14 | 0.59 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 18 | 0.59 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 2 | 0.59 |
| (2,1245) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 19 | 0.59 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 7 | 0.59 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 17 | 0.59 |
| (2,1134) | 1:59:A:ILE:HD13 | 1:159:A:ILE:H | 18 | 0.59 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG11 | 3 | 0.59 |
| (2,748) | 1:122:A:LEU:HD21 | 1:122:A:LEU:H | 9 | 0.59 |
| (2,748) | 1:122:A:LEU:HD23 | 1:122:A:LEU:H | 19 | 0.59 |
| (2,650) | 1:128:A:LYS:HG3 | 1:129:A:VAL:HG11 | 20 | 0.59 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD11 | 19 | 0.59 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG21 | 10 | 0.59 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG13 | 3 | 0.59 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 16 | 0.59 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 3 | 0.59 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 15 | 0.59 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 14 | 0.59 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 2 | 0.59 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 1 | 0.59 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 1 | 0.58 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 4 | 0.58 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 4 | 0.58 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 12 | 0.58 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 12 | 0.58 |
| (2,4760) | 1:5:A:VAL:HG13 | 1:4:A:THR:H | 18 | 0.58 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 4 | 0.58 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 5 | 0.58 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 8 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4570) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 15 | 0.58 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 4 | 0.58 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 6 | 0.58 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 11 | 0.58 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 20 | 0.58 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 18 | 0.58 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD13 | 3 | 0.58 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 1 | 0.58 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HA | 2 | 0.58 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 15 | 0.58 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG11 | 15 | 0.58 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 17 | 0.58 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 14 | 0.58 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 3 | 0.58 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 7 | 0.58 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 11 | 0.58 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 9 | 0.58 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 12 | 0.58 |
| (2,4348) | 1:145:A:LEU:HD23 | 1:60:A:PHE:HE1 | 15 | 0.58 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 18 | 0.58 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 10 | 0.58 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 17 | 0.58 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 16 | 0.58 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 20 | 0.58 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 7 | 0.58 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 17 | 0.58 |
| (2,4205) | 1:158:A:LYS:HD3 | 1:159:A:ILE:H | 9 | 0.58 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD3 | 17 | 0.58 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD22 | 6 | 0.58 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD23 | 18 | 0.58 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 20 | 0.58 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 20 | 0.58 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 9 | 0.58 |
| (2,4004) | 1:159:A:ILE:HD11 | 1:141:A:LEU:HG | 14 | 0.58 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 14 | 0.58 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 3 | 0.58 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 15 | 0.58 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 16 | 0.58 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 8 | 0.58 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 5 | 0.58 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 1 | 0.58 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 9 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 17 | 0.58 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 7 | 0.58 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 12 | 0.58 |
| (2,3758) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 19 | 0.58 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 16 | 0.58 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 11 | 0.58 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 19 | 0.58 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 13 | 0.58 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 11 | 0.58 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 15 | 0.58 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG23 | 13 | 0.58 |
| (2,3450) | 1:130:A:ALA:HB3 | 1:132:A:HIS:H | 6 | 0.58 |
| (2,3382) | 1:115:A:ILE:H | 1:111:A:ASP:HB2 | 17 | 0.58 |
| (2,3239) | 1:56:A:ASN:H | 1:29:A:LEU:HB3 | 12 | 0.58 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 3 | 0.58 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 4 | 0.58 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 8 | 0.58 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 9 | 0.58 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 2 | 0.58 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 4 | 0.58 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 5 | 0.58 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 4 | 0.58 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 14 | 0.58 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 17 | 0.58 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 19 | 0.58 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD22 | 17 | 0.58 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 1 | 0.58 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 18 | 0.58 |
| (2,2410) | 1:109:A:ILE:HG23 | 1:114:A:PHE:HB2 | 12 | 0.58 |
| (2,2384) | 1:60:A:PHE:HB3 | 1:57:A:LEU:HB3 | 5 | 0.58 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 13 | 0.58 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 3 | 0.58 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 11 | 0.58 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 7 | 0.58 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 2 | 0.58 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 6 | 0.58 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 20 | 0.58 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 19 | 0.58 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 20 | 0.58 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 4 | 0.58 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 9 | 0.58 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 12 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 15 | 0.58 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 16 | 0.58 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 18 | 0.58 |
| (2,1504) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD13 | 12 | 0.58 |
| (2,1504) | 1:57:A:LEU:HD21 | 1:29:A:LEU:HD12 | 17 | 0.58 |
| (2,1366) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HA | 7 | 0.58 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 11 | 0.58 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG23 | 6 | 0.58 |
| (2,1295) | 1:51:A:ILE:HD12 | 1:122:A:LEU:HB2 | 20 | 0.58 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 10 | 0.58 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 11 | 0.58 |
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 20 | 0.58 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 11 | 0.58 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 8 | 0.58 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 13 | 0.58 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 13 | 0.58 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 5 | 0.58 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 18 | 0.58 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 18 | 0.58 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 17 | 0.58 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 18 | 0.58 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG21 | 2 | 0.58 |
| (2,621) | 1:89:A:VAL:HG11 | 1:129:A:VAL:HG22 | 15 | 0.58 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 14 | 0.58 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 18 | 0.58 |
| (2,510) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HD12 | 15 | 0.58 |
| (2,491) | 1:126:A:ILE:HG23 | 1:123:A:GLU:HG2 | 17 | 0.58 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD11 | 2 | 0.58 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 4 | 0.58 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 5 | 0.58 |
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD13 | 20 | 0.58 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 5 | 0.58 |
| (2,224) | 1:155:A:THR:HG23 | 1:139:A:ARG:HG2 | 19 | 0.58 |
| (2,223) | 1:155:A:THR:HA | 1:139:A:ARG:HG2 | 19 | 0.58 |
| (2,33) | 1:27:A:ASN:HA | 1:56:A:ASN:HD21 | 17 | 0.58 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 2 | 0.58 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 7 | 0.58 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 16 | 0.58 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 5 | 0.57 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 7 | 0.57 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 9 | 0.57 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 14 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 20 | 0.57 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 10 | 0.57 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 1 | 0.57 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:24:A:PRO:HG2 | 17 | 0.57 |
| (2,4785) | 1:23:A:GLY:H | 1:58:A:PRO:HB2 | 10 | 0.57 |
| (2,4733) | 1:111:A:ASP:H | 1:114:A:PHE:HE2 | 20 | 0.57 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 4 | 0.57 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 19 | 0.57 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 3 | 0.57 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 7 | 0.57 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG23 | 14 | 0.57 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 3 | 0.57 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 1 | 0.57 |
| (2,4550) | 1:34:A:SER:HB2 | 1:119:A:LYS:HE3 | 12 | 0.57 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 8 | 0.57 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 6 | 0.57 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD11 | 2 | 0.57 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:145:A:LEU:HG | 10 | 0.57 |
| (2,4471) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HA | 15 | 0.57 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 20 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 5 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD13 | 1:30:A:GLU:HB3 | 8 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 10 | 0.57 |
| (2,4434) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 18 | 0.57 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 12 | 0.57 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD23 | 4 | 0.57 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD21 | 9 | 0.57 |
| (2,4332) | 1:141:A:LEU:HD12 | 1:132:A:HIS:HB3 | 7 | 0.57 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 19 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 11 | 0.57 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 20 | 0.57 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 15 | 0.57 |
| (2,4240) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 20 | 0.57 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 10 | 0.57 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 12 | 0.57 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 9 | 0.57 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 11 | 0.57 |
| (2,4174) | 1:63:A:LYS:HD2 | 1:55:A:THR:H | 5 | 0.57 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD23 | 7 | 0.57 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 16 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD13 | 1 | 0.57 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 10 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 9 | 0.57 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE1 | 7 | 0.57 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:49:A:TYR:H | 6 | 0.57 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:49:A:TYR:H | 19 | 0.57 |
| (2,4051) | 1:29:A:LEU:HD21 | 1:145:A:LEU:HG | 15 | 0.57 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD2 | 13 | 0.57 |
| (2,4037) | 1:122:A:LEU:HD13 | 1:33:A:VAL:HG23 | 12 | 0.57 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:76:A:TRP:H | 13 | 0.57 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD3 | 18 | 0.57 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 15 | 0.57 |
| (2,4004) | 1:159:A:ILE:HD13 | 1:141:A:LEU:HG | 20 | 0.57 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 14 | 0.57 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 3 | 0.57 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 9 | 0.57 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 2 | 0.57 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 6 | 0.57 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB2 | 5 | 0.57 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 10 | 0.57 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 16 | 0.57 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 1 | 0.57 |
| (2,3776) | 1:39:A:VAL:HG11 | 1:46:A:PHE:HZ | 8 | 0.57 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 6 | 0.57 |
| (2,3764) | 1:53:A:VAL:HG23 | 1:30:A:GLU:HG3 | 18 | 0.57 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 8 | 0.57 |
| (2,3762) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 18 | 0.57 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 8 | 0.57 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 19 | 0.57 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 5 | 0.57 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG21 | 9 | 0.57 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 8 | 0.57 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 2 | 0.57 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 1 | 0.57 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 5 | 0.57 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 9 | 0.57 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 12 | 0.57 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 17 | 0.57 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 19 | 0.57 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 13 | 0.57 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 1 | 0.57 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 4 | 0.57 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 9 | 0.57 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 10 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 16 | 0.57 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 18 | 0.57 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 9 | 0.57 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 2 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 1 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 3 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 5 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 7 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 8 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 12 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 13 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 15 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 16 | 0.57 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 18 | 0.57 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 17 | 0.57 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 9 | 0.57 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 9 | 0.57 |
| (2,2372) | 1:33:A:VAL:HG23 | 1:74:A:PHE:HD2 | 13 | 0.57 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 12 | 0.57 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 12 | 0.57 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 18 | 0.57 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD23 | 16 | 0.57 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 4 | 0.57 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 9 | 0.57 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 11 | 0.57 |
| (2,2033) | 1:53:A:VAL:HG22 | 1:54:A:LYS:HB2 | 6 | 0.57 |
| (2,1897) | 1:115:A:ILE:HD12 | 1:116:A:GLU:HA | 12 | 0.57 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 5 | 0.57 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 10 | 0.57 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 11 | 0.57 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 17 | 0.57 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 20 | 0.57 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 17 | 0.57 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 18 | 0.57 |
| (2,1780) | 1:14:A:LYS:HB3 | 1:15:A:PRO:HD3 | 20 | 0.57 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 3 | 0.57 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 16 | 0.57 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG22 | 18 | 0.57 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 19 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 1 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 2 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 3 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 5 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 7 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 8 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 11 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 13 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 14 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 17 | 0.57 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 19 | 0.57 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 11 | 0.57 |
| (2,1504) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD11 | 18 | 0.57 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 2 | 0.57 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 5 | 0.57 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 13 | 0.57 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 2 | 0.57 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 13 | 0.57 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 1 | 0.57 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 3 | 0.57 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 4 | 0.57 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 7 | 0.57 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 1 | 0.57 |
| (2,1245) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 3 | 0.57 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 7 | 0.57 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 5 | 0.57 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 15 | 0.57 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 16 | 0.57 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 5 | 0.57 |
| (2,1134) | 1:59:A:ILE:HD13 | 1:159:A:ILE:H | 11 | 0.57 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 15 | 0.57 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 19 | 0.57 |
| (2,998) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD11 | 7 | 0.57 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 13 | 0.57 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 4 | 0.57 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD12 | 1 | 0.57 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG11 | 6 | 0.57 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG12 | 18 | 0.57 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 8 | 0.57 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 8 | 0.57 |
| (2,243) | 1:150:A:ILE:HD11 | 1:150:A:ILE:H | 9 | 0.57 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 17 | 0.57 |
| (2,76) | 1:80:A:GLU:HA | 1:83:A:ARG:HB2 | 6 | 0.57 |
| (2,16) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB2 | 20 | 0.57 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG22 | 4 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 10 | 0.57 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 12 | 0.56 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 14 | 0.56 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 17 | 0.56 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD13 | 10 | 0.56 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 12 | 0.56 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 14 | 0.56 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 6 | 0.56 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 17 | 0.56 |
| (2,4606) | 1:99:A:ARG:H | 1:97:A:PHE:HD1 | 7 | 0.56 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 8 | 0.56 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD3 | 15 | 0.56 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 2 | 0.56 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 3 | 0.56 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 16 | 0.56 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG11 | 3 | 0.56 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG11 | 4 | 0.56 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 2 | 0.56 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 14 | 0.56 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 8 | 0.56 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 15 | 0.56 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 15 | 0.56 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 7 | 0.56 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 18 | 0.56 |
| (2,4346) | 1:145:A:LEU:HA | 1:145:A:LEU:HD22 | 20 | 0.56 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 8 | 0.56 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 2 | 0.56 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 3 | 0.56 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 12 | 0.56 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 2 | 0.56 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG23 | 6 | 0.56 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 1 | 0.56 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 13 | 0.56 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 13 | 0.56 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG23 | 14 | 0.56 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE2 | 18 | 0.56 |
| (2,4115) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 3 | 0.56 |
| (2,4093) | 1:115:A:ILE:HG23 | 1:49:A:TYR:HD1 | 20 | 0.56 |
| (2,4084) | 1:51:A:ILE:HD12 | 1:49:A:TYR:H | 1 | 0.56 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:49:A:TYR:H | 12 | 0.56 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 2 | 0.56 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG23 | 2 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 7 | 0.56 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG23 | 13 | 0.56 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 9 | 0.56 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 18 | 0.56 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD23 | 7 | 0.56 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 3 | 0.56 |
| (2,3958) | 1:109:A:ILE:HD11 | 1:107:A:ASP:H | 4 | 0.56 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 13 | 0.56 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 17 | 0.56 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:142:A:HIS:HA | 6 | 0.56 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 20 | 0.56 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 1 | 0.56 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 14 | 0.56 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 20 | 0.56 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 11 | 0.56 |
| (2,3691) | 1:150:A:ILE:HD11 | 1:143:A:MET:HB2 | 20 | 0.56 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 10 | 0.56 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 12 | 0.56 |
| (2,3640) | 1:79:A:SER:HB3 | 1:82:A:GLU:HB2 | 3 | 0.56 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 2 | 0.56 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 8 | 0.56 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 18 | 0.56 |
| (2,3450) | 1:130:A:ALA:HB3 | 1:132:A:HIS:H | 13 | 0.56 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 2 | 0.56 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 5 | 0.56 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 14 | 0.56 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 5 | 0.56 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 4 | 0.56 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 20 | 0.56 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 17 | 0.56 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 2 | 0.56 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 10 | 0.56 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 11 | 0.56 |
| (2,2689) | 1:37:A:GLN:HG2 | 1:37:A:GLN:HE22 | 20 | 0.56 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 16 | 0.56 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 2 | 0.56 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 4 | 0.56 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 20 | 0.56 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 1 | 0.56 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 20 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD11 | 2 | 0.56 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD13 | 14 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG22 | 16 | 0.56 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 10 | 0.56 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 18 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 1 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 2 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 3 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 4 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 7 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 8 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 9 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 13 | 0.56 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 15 | 0.56 |
| (2,1780) | 1:14:A:LYS:HB3 | 1:15:A:PRO:HD3 | 4 | 0.56 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 7 | 0.56 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 13 | 0.56 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 16 | 0.56 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 2 | 0.56 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 9 | 0.56 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 17 | 0.56 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 20 | 0.56 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 4 | 0.56 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 15 | 0.56 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 6 | 0.56 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 10 | 0.56 |
| (2,1602) | 1:102:A:PRO:HB2 | 1:102:A:PRO:HG3 | 20 | 0.56 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 17 | 0.56 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 8 | 0.56 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 3 | 0.56 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 8 | 0.56 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 1 | 0.56 |
| (2,1303) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HA | 17 | 0.56 |
| (2,1282) | 1:31:A:ILE:HD12 | 1:30:A:GLU:H | 9 | 0.56 |
| (2,1282) | 1:31:A:ILE:HD13 | 1:30:A:GLU:H | 17 | 0.56 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 12 | 0.56 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 16 | 0.56 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 17 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 1 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD22 | 3 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 11 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 18 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD22 | 19 | 0.56 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD22 | 20 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 9 | 0.56 |
| (2,1147) | 1:122:A:LEU:HD12 | 1:93:A:PRO:HB3 | 12 | 0.56 |
| (2,1134) | 1:59:A:ILE:HD13 | 1:159:A:ILE:H | 16 | 0.56 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 14 | 0.56 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 1 | 0.56 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 11 | 0.56 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 4 | 0.56 |
| (2,748) | 1:122:A:LEU:HD23 | 1:122:A:LEU:H | 11 | 0.56 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG12 | 16 | 0.56 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 20 | 0.56 |
| (2,491) | 1:126:A:ILE:HG22 | 1:123:A:GLU:HG2 | 7 | 0.56 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 20 | 0.56 |
| (2,480) | 1:53:A:VAL:HG21 | 1:31:A:ILE:HD12 | 16 | 0.56 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG22 | 6 | 0.56 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG12 | 16 | 0.56 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 5 | 0.56 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 6 | 0.56 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 10 | 0.56 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 8 | 0.56 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 3 | 0.55 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 14 | 0.55 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 6 | 0.55 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 13 | 0.55 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 9 | 0.55 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD11 | 13 | 0.55 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 15 | 0.55 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 9 | 0.55 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 4 | 0.55 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 17 | 0.55 |
| (2,4772) | 1:10:A:ARG:H | 1:10:A:ARG:HD3 | 12 | 0.55 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 8 | 0.55 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 10 | 0.55 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 12 | 0.55 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 15 | 0.55 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 18 | 0.55 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 3 | 0.55 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 19 | 0.55 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 15 | 0.55 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 4 | 0.55 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 10 | 0.55 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 16 | 0.55 |
| (2,4493) | 1:29:A:LEU:HD21 | 1:130:A:ALA:HA | 7 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 15 | 0.55 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 11 | 0.55 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 11 | 0.55 |
| (2,4469) | 1:77:A:LEU:HD13 | 1:130:A:ALA:HB2 | 1 | 0.55 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 16 | 0.55 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 14 | 0.55 |
| (2,4437) | 1:31:A:ILE:HG22 | 1:53:A:VAL:HG12 | 16 | 0.55 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 19 | 0.55 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 4 | 0.55 |
| (2,4434) | 1:29:A:LEU:HD12 | 1:30:A:GLU:HB3 | 15 | 0.55 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 9 | 0.55 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 20 | 0.55 |
| (2,4396) | 1:61:A:LYS:HD2 | 1:61:A:LYS:HA | 18 | 0.55 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 1 | 0.55 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 8 | 0.55 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 19 | 0.55 |
| (2,4347) | 1:38:A:THR:HG22 | 1:110:A:PHE:HZ | 9 | 0.55 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 20 | 0.55 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 4 | 0.55 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 13 | 0.55 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD13 | 5 | 0.55 |
| (2,4283) | 1:86:A:LYS:HE2 | 1:86:A:LYS:HG2 | 9 | 0.55 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 2 | 0.55 |
| (2,4272) | 1:80:A:GLU:HA | 1:83:A:ARG:HD3 | 18 | 0.55 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 4 | 0.55 |
| (2,4252) | 1:63:A:LYS:HE3 | 1:60:A:PHE:H | 15 | 0.55 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 13 | 0.55 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 11 | 0.55 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 19 | 0.55 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD2 | 13 | 0.55 |
| (2,4154) | 1:57:A:LEU:HD23 | 1:29:A:LEU:HD21 | 20 | 0.55 |
| (2,4141) | 1:64:A:GLU:HG3 | 1:55:A:THR:H | 1 | 0.55 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG22 | 14 | 0.55 |
| (2,3963) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 2 | 0.55 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 17 | 0.55 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 11 | 0.55 |
| (2,3940) | 1:115:A:ILE:HD13 | 1:109:A:ILE:HA | 4 | 0.55 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 3 | 0.55 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 9 | 0.55 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 8 | 0.55 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 13 | 0.55 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 13 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 3 | 0.55 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 20 | 0.55 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 10 | 0.55 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 6 | 0.55 |
| (2,3818) | 1:128:A:LYS:HE3 | 1:128:A:LYS:H | 12 | 0.55 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 15 | 0.55 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 19 | 0.55 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:145:A:LEU:HD13 | 16 | 0.55 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 10 | 0.55 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 11 | 0.55 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 4 | 0.55 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 13 | 0.55 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 6 | 0.55 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 12 | 0.55 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 18 | 0.55 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 1 | 0.55 |
| (2,3505) | 1:39:A:VAL:HG11 | 1:37:A:GLN:HE22 | 13 | 0.55 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 2 | 0.55 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 13 | 0.55 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 20 | 0.55 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 11 | 0.55 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 15 | 0.55 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 6 | 0.55 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 5 | 0.55 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 1 | 0.55 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 12 | 0.55 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 7 | 0.55 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 9 | 0.55 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 15 | 0.55 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 19 | 0.55 |
| (2,2747) | 1:122:A:LEU:HD21 | 1:121:A:GLY:H | 10 | 0.55 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 12 | 0.55 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG21 | 14 | 0.55 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 15 | 0.55 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 3 | 0.55 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 7 | 0.55 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 19 | 0.55 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD1 | 10 | 0.55 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD11 | 4 | 0.55 |
| (2,2181) | 1:53:A:VAL:HG12 | 1:31:A:ILE:HG12 | 6 | 0.55 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 3 | 0.55 |
| (2,2005) | 1:51:A:ILE:HD12 | 1:69:A:ARG:HA | 13 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 6 | 0.55 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 12 | 0.55 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 14 | 0.55 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 6 | 0.55 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 4 | 0.55 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 7 | 0.55 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD22 | 3 | 0.55 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 9 | 0.55 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 3 | 0.55 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 5 | 0.55 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 6 | 0.55 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 9 | 0.55 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 2 | 0.55 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 8 | 0.55 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 13 | 0.55 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 13 | 0.55 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 9 | 0.55 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 7 | 0.55 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 2 | 0.55 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 6 | 0.55 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 8 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 4 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 9 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 10 | 0.55 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 12 | 0.55 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG23 | 3 | 0.55 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 17 | 0.55 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 12 | 0.55 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 17 | 0.55 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 4 | 0.55 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 10 | 0.55 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 17 | 0.55 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 19 | 0.55 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG21 | 20 | 0.55 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 6 | 0.55 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD13 | 15 | 0.55 |
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 8 | 0.55 |
| (2,480) | 1:53:A:VAL:HG23 | 1:31:A:ILE:HD11 | 15 | 0.55 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG21 | 4 | 0.55 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 15 | 0.55 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 13 | 0.55 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 17 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,300) | 1:92:A:LEU:HA | 1:92:A:LEU:HD12 | 16 | 0.55 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 1 | 0.55 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG21 | 8 | 0.55 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 13 | 0.55 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 18 | 0.55 |
| (2,122) | 1:142:A:HIS:HA | 1:143:A:MET:HB3 | 17 | 0.55 |
| (2,47) | 1:83:A:ARG:HB2 | 1:83:A:ARG:HD3 | 15 | 0.55 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 13 | 0.55 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 14 | 0.55 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 4 | 0.54 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 20 | 0.54 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB3 | 3 | 0.54 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 15 | 0.54 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 15 | 0.54 |
| (2,4772) | 1:10:A:ARG:H | 1:9:A:ARG:HD2 | 1 | 0.54 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG23 | 17 | 0.54 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 20 | 0.54 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 1 | 0.54 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 8 | 0.54 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 1 | 0.54 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 13 | 0.54 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG21 | 9 | 0.54 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 8 | 0.54 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 18 | 0.54 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 20 | 0.54 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 7 | 0.54 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:89:A:VAL:HB | 3 | 0.54 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 11 | 0.54 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD13 | 13 | 0.54 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 1 | 0.54 |
| (2,4474) | 1:77:A:LEU:HD13 | 1:126:A:ILE:HB | 15 | 0.54 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 9 | 0.54 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 18 | 0.54 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 3 | 0.54 |
| (2,4418) | 1:77:A:LEU:HD12 | 1:144:A:PHE:H | 2 | 0.54 |
| (2,4418) | 1:77:A:LEU:HD12 | 1:144:A:PHE:H | 4 | 0.54 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 18 | 0.54 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 11 | 0.54 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 4 | 0.54 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 12 | 0.54 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 14 | 0.54 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 16 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4365) | 1:145:A:LEU:HD21 | 1:146:A:GLN:HG3 | 9 | 0.54 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 4 | 0.54 |
| (2,4350) | 1:145:A:LEU:HB3 | 1:145:A:LEU:HD23 | 2 | 0.54 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 2 | 0.54 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 14 | 0.54 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 2 | 0.54 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 20 | 0.54 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:11:A:LEU:H | 1 | 0.54 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG22 | 16 | 0.54 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD3 | 8 | 0.54 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 1 | 0.54 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD23 | 1 | 0.54 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD23 | 6 | 0.54 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD13 | 18 | 0.54 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 8 | 0.54 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 20 | 0.54 |
| (2,4096) | 1:59:A:ILE:HG22 | 1:136:A:GLN:H | 13 | 0.54 |
| (2,4094) | 1:115:A:ILE:HG21 | 1:119:A:LYS:H | 20 | 0.54 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:145:A:LEU:HG | 14 | 0.54 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG21 | 5 | 0.54 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG22 | 14 | 0.54 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 11 | 0.54 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 18 | 0.54 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 17 | 0.54 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:108:A:GLY:H | 20 | 0.54 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 16 | 0.54 |
| (2,3953) | 1:111:A:ASP:HB3 | 1:108:A:GLY:HA3 | 9 | 0.54 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 14 | 0.54 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 6 | 0.54 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 11 | 0.54 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 1 | 0.54 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 10 | 0.54 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 8 | 0.54 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 13 | 0.54 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 3 | 0.54 |
| (2,3842) | 1:159:A:ILE:HG23 | 1:142:A:HIS:HA | 19 | 0.54 |
| (2,3810) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD2 | 1 | 0.54 |
| (2,3810) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD2 | 8 | 0.54 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 18 | 0.54 |
| (2,3765) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 17 | 0.54 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 7 | 0.54 |
| (2,3687) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 16 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 9 | 0.54 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 1 | 0.54 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 5 | 0.54 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 14 | 0.54 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 8 | 0.54 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 10 | 0.54 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 11 | 0.54 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 14 | 0.54 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 16 | 0.54 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 12 | 0.54 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 13 | 0.54 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 17 | 0.54 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 3 | 0.54 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 2 | 0.54 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 3 | 0.54 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 6 | 0.54 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 11 | 0.54 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 9 | 0.54 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE1 | 18 | 0.54 |
| (2,2913) | 1:115:A:ILE:HD11 | 1:37:A:GLN:H | 10 | 0.54 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 13 | 0.54 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 16 | 0.54 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 3 | 0.54 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD22 | 3 | 0.54 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD21 | 19 | 0.54 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 10 | 0.54 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 2 | 0.54 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 10 | 0.54 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 1 | 0.54 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 15 | 0.54 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 8 | 0.54 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 3 | 0.54 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 5 | 0.54 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 6 | 0.54 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD23 | 5 | 0.54 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 6 | 0.54 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD23 | 8 | 0.54 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 14 | 0.54 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 17 | 0.54 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 12 | 0.54 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 14 | 0.54 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 2 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 12 | 0.54 |
| (2,2047) | 1:51:A:ILE:HG12 | 1:52:A:ARG:H | 5 | 0.54 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 9 | 0.54 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 12 | 0.54 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 8 | 0.54 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 8 | 0.54 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 13 | 0.54 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 5 | 0.54 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 10 | 0.54 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 16 | 0.54 |
| (2,1371) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HD1 | 19 | 0.54 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 12 | 0.54 |
| (2,1303) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HA | 6 | 0.54 |
| (2,1282) | 1:31:A:ILE:HD11 | 1:30:A:GLU:H | 6 | 0.54 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 18 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 6 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 7 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 13 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 14 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 16 | 0.54 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD21 | 17 | 0.54 |
| (2,1134) | 1:59:A:ILE:HD13 | 1:159:A:ILE:H | 1 | 0.54 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 16 | 0.54 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 10 | 0.54 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 12 | 0.54 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG22 | 8 | 0.54 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG21 | 2 | 0.54 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG21 | 4 | 0.54 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 5 | 0.54 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 7 | 0.54 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 16 | 0.54 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG12 | 15 | 0.54 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG13 | 19 | 0.54 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 17 | 0.54 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD13 | 8 | 0.54 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD13 | 10 | 0.54 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 20 | 0.54 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 16 | 0.54 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG12 | 14 | 0.54 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 7 | 0.54 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 12 | 0.54 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 12 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 20 | 0.54 |
| (2,47) | 1:83:A:ARG:HB2 | 1:83:A:ARG:HD3 | 1 | 0.54 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 15 | 0.53 |
| (2,4943) | 1:140:A:CYS:H | 1:161:A:HIS:HD2 | 8 | 0.53 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 17 | 0.53 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 17 | 0.53 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 10 | 0.53 |
| (2,4760) | 1:5:A:VAL:HG23 | 1:4:A:THR:H | 17 | 0.53 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 4 | 0.53 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 9 | 0.53 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 10 | 0.53 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 5 | 0.53 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 11 | 0.53 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 15 | 0.53 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 14 | 0.53 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 6 | 0.53 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 4 | 0.53 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 5 | 0.53 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 7 | 0.53 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG2 | 19 | 0.53 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 13 | 0.53 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 19 | 0.53 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 18 | 0.53 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:84:A:GLU:H | 6 | 0.53 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 10 | 0.53 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 14 | 0.53 |
| (2,4474) | 1:77:A:LEU:HD11 | 1:126:A:ILE:HB | 19 | 0.53 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 5 | 0.53 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 19 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG22 | 1:53:A:VAL:HG12 | 1 | 0.53 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 5 | 0.53 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 13 | 0.53 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 20 | 0.53 |
| (2,4358) | 1:157:A:SER:HA | 1:158:A:LYS:HD2 | 19 | 0.53 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD1 | 1 | 0.53 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 16 | 0.53 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 15 | 0.53 |
| (2,4154) | 1:57:A:LEU:HD22 | 1:29:A:LEU:HD23 | 12 | 0.53 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD22 | 20 | 0.53 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD12 | 11 | 0.53 |
| (2,4128) | 1:149:A:ILE:HB | 1:150:A:ILE:HD11 | 13 | 0.53 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG23 | 2 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 4 | 0.53 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 3 | 0.53 |
| (2,4041) | 1:45:A:ARG:HD3 | 1:41:A:VAL:HA | 4 | 0.53 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 15 | 0.53 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 4 | 0.53 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 10 | 0.53 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 2 | 0.53 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 12 | 0.53 |
| (2,3869) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD21 | 5 | 0.53 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 1 | 0.53 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 1 | 0.53 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 2 | 0.53 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 13 | 0.53 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 14 | 0.53 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 18 | 0.53 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB2 | 15 | 0.53 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 18 | 0.53 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 14 | 0.53 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:142:A:HIS:HA | 4 | 0.53 |
| (2,3776) | 1:39:A:VAL:HG13 | 1:46:A:PHE:HZ | 2 | 0.53 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 13 | 0.53 |
| (2,3772) | 1:126:A:ILE:HG22 | 1:32:A:ASP:HA | 19 | 0.53 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 20 | 0.53 |
| (2,3762) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 13 | 0.53 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG12 | 5 | 0.53 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 16 | 0.53 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 4 | 0.53 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 7 | 0.53 |
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 17 | 0.53 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 2 | 0.53 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 6 | 0.53 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 15 | 0.53 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 16 | 0.53 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 12 | 0.53 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 6 | 0.53 |
| (2,3020) | 1:8:A:THR:HG22 | 1:9:A:ARG:H | 19 | 0.53 |
| (2,2991) | 1:26:A:SER:H | 1:27:A:ASN:HB3 | 6 | 0.53 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 8 | 0.53 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 17 | 0.53 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 17 | 0.53 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 20 | 0.53 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 13 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 13 | 0.53 |
| (2,2410) | 1:109:A:ILE:HG23 | 1:114:A:PHE:HB2 | 8 | 0.53 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 2 | 0.53 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 15 | 0.53 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 8 | 0.53 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 6 | 0.53 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 7 | 0.53 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 17 | 0.53 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 13 | 0.53 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 16 | 0.53 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 8 | 0.53 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 14 | 0.53 |
| (2,1953) | 1:145:A:LEU:HD23 | 1:141:A:LEU:HB3 | 19 | 0.53 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 19 | 0.53 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 8 | 0.53 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 12 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD12 | 3 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD12 | 6 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 14 | 0.53 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD12 | 20 | 0.53 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 17 | 0.53 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 19 | 0.53 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 20 | 0.53 |
| (2,1370) | 1:21:A:ALA:HB2 | 1:20:A:ASP:H | 7 | 0.53 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 1 | 0.53 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 8 | 0.53 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 12 | 0.53 |
| (2,1323) | 1:150:A:ILE:HG23 | 1:149:A:ILE:HG22 | 12 | 0.53 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG22 | 18 | 0.53 |
| (2,1295) | 1:51:A:ILE:HD13 | 1:122:A:LEU:HB2 | 5 | 0.53 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 9 | 0.53 |
| (2,1242) | 1:81:A:LEU:HB2 | 1:81:A:LEU:HD23 | 2 | 0.53 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 10 | 0.53 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 18 | 0.53 |
| (2,1134) | 1:59:A:ILE:HD12 | 1:159:A:ILE:H | 10 | 0.53 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 4 | 0.53 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 9 | 0.53 |
| (2,1031) | 1:148:A:GLU:HG2 | 1:67:A:VAL:HG12 | 9 | 0.53 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 7 | 0.53 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 7 | 0.53 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 3 | 0.53 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 3 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,621) | 1:89:A:VAL:HG13 | 1:129:A:VAL:HG23 | 1 | 0.53 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG13 | 14 | 0.53 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG11 | 10 | 0.53 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG13 | 3 | 0.53 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 1 | 0.53 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 2 | 0.53 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 9 | 0.53 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 14 | 0.53 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 16 | 0.53 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 14 | 0.53 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 20 | 0.53 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 8 | 0.53 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 20 | 0.53 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 17 | 0.53 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 2 | 0.53 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 3 | 0.53 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG21 | 20 | 0.53 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 14 | 0.53 |
| (2,47) | 1:83:A:ARG:HB2 | 1:83:A:ARG:HD3 | 9 | 0.53 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 14 | 0.52 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 5 | 0.52 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 6 | 0.52 |
| (2,4959) | 1:116:A:GLU:H | 1:117:A:GLU:HB2 | 19 | 0.52 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 3 | 0.52 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG13 | 9 | 0.52 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG23 | 14 | 0.52 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 6 | 0.52 |
| (2,4727) | 1:33:A:VAL:HG23 | 1:50:A:GLU:H | 15 | 0.52 |
| (2,4714) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 1 | 0.52 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 8 | 0.52 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 1 | 0.52 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 12 | 0.52 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 11 | 0.52 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 12 | 0.52 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 14 | 0.52 |
| (2,4623) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 14 | 0.52 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 20 | 0.52 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 14 | 0.52 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 2 | 0.52 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 7 | 0.52 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 10 | 0.52 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 1 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 2 | 0.52 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 2 | 0.52 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG11 | 12 | 0.52 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 18 | 0.52 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 17 | 0.52 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 18 | 0.52 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 20 | 0.52 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 6 | 0.52 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 20 | 0.52 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 3 | 0.52 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 11 | 0.52 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 19 | 0.52 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD12 | 19 | 0.52 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 19 | 0.52 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 5 | 0.52 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 20 | 0.52 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 4 | 0.52 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 18 | 0.52 |
| (2,4116) | 1:135:A:ALA:HB3 | 1:88:A:VAL:H | 1 | 0.52 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD2 | 2 | 0.52 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 1 | 0.52 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 19 | 0.52 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 5 | 0.52 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 16 | 0.52 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 11 | 0.52 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 12 | 0.52 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 4 | 0.52 |
| (2,3947) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 5 | 0.52 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 7 | 0.52 |
| (2,3930) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 4 | 0.52 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 17 | 0.52 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 8 | 0.52 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 17 | 0.52 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 4 | 0.52 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 7 | 0.52 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 2 | 0.52 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 15 | 0.52 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 17 | 0.52 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 4 | 0.52 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 20 | 0.52 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 6 | 0.52 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 12 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 7 | 0.52 |
| (2,3676) | 1:11:A:LEU:HA | 1:11:A:LEU:H | 8 | 0.52 |
| (2,3660) | 1:66:A:THR:HG22 | 1:52:A:ARG:HB2 | 20 | 0.52 |
| (2,3640) | 1:79:A:SER:HB3 | 1:82:A:GLU:HB2 | 14 | 0.52 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB2 | 17 | 0.52 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE1 | 4 | 0.52 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 11 | 0.52 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 19 | 0.52 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 1 | 0.52 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 6 | 0.52 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 7 | 0.52 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD13 | 16 | 0.52 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 6 | 0.52 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 14 | 0.52 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 12 | 0.52 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD22 | 5 | 0.52 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 12 | 0.52 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 13 | 0.52 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 14 | 0.52 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 18 | 0.52 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 2 | 0.52 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 12 | 0.52 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 20 | 0.52 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 6 | 0.52 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 17 | 0.52 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 7 | 0.52 |
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 14 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 1 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 6 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 7 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 13 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 14 | 0.52 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 17 | 0.52 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 20 | 0.52 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 11 | 0.52 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 4 | 0.52 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 14 | 0.52 |
| (2,2384) | 1:60:A:PHE:HB3 | 1:57:A:LEU:HB3 | 17 | 0.52 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 10 | 0.52 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 6 | 0.52 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 18 | 0.52 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 11 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 17 | 0.52 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 20 | 0.52 |
| (2,2014) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HD22 | 11 | 0.52 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 17 | 0.52 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 16 | 0.52 |
| (2,1865) | 1:98:A:LEU:HD11 | 1:94:A:GLY:HA3 | 19 | 0.52 |
| (2,1780) | 1:14:A:LYS:HB3 | 1:15:A:PRO:HD3 | 3 | 0.52 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 11 | 0.52 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 2 | 0.52 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 18 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 2 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 4 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 6 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 7 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 9 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 13 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 14 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 15 | 0.52 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 16 | 0.52 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 18 | 0.52 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 5 | 0.52 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 6 | 0.52 |
| (2,1134) | 1:59:A:ILE:HD11 | 1:159:A:ILE:H | 13 | 0.52 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 9 | 0.52 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 16 | 0.52 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 14 | 0.52 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 6 | 0.52 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 3 | 0.52 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 10 | 0.52 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 15 | 0.52 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG12 | 7 | 0.52 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 15 | 0.52 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 2 | 0.52 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 6 | 0.52 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 15 | 0.52 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG13 | 1 | 0.52 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG11 | 5 | 0.52 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG12 | 10 | 0.52 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 19 | 0.52 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 13 | 0.52 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 3 | 0.52 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 9 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 18 | 0.52 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 2 | 0.52 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 11 | 0.52 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 16 | 0.52 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 10 | 0.52 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 15 | 0.52 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 16 | 0.52 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 8 | 0.52 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 20 | 0.52 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 12 | 0.52 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG22 | 17 | 0.52 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 18 | 0.52 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 1 | 0.51 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HG3 | 9 | 0.51 |
| (2,4873) | 1:113:A:ASN:H | 1:117:A:GLU:HG3 | 18 | 0.51 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 2 | 0.51 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 1 | 0.51 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 2 | 0.51 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 3 | 0.51 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 3 | 0.51 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 19 | 0.51 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:58:A:PRO:HG3 | 3 | 0.51 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 3 | 0.51 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 11 | 0.51 |
| (2,4760) | 1:5:A:VAL:HG12 | 1:4:A:THR:H | 4 | 0.51 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 8 | 0.51 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 16 | 0.51 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 19 | 0.51 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 16 | 0.51 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 9 | 0.51 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 7 | 0.51 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG13 | 5 | 0.51 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG12 | 17 | 0.51 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 10 | 0.51 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 11 | 0.51 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 6 | 0.51 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 1 | 0.51 |
| (2,4471) | 1:77:A:LEU:HD13 | 1:141:A:LEU:HA | 13 | 0.51 |
| (2,4469) | 1:77:A:LEU:HD12 | 1:130:A:ALA:HB1 | 19 | 0.51 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 1 | 0.51 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 7 | 0.51 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 15 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 19 | 0.51 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 20 | 0.51 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 8 | 0.51 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 17 | 0.51 |
| (2,4441) | 1:33:A:VAL:HG13 | 1:122:A:LEU:H | 15 | 0.51 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG13 | 8 | 0.51 |
| (2,4434) | 1:29:A:LEU:HD11 | 1:30:A:GLU:HB3 | 16 | 0.51 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 1 | 0.51 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 11 | 0.51 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 1 | 0.51 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 15 | 0.51 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 9 | 0.51 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:74:A:PHE:HD2 | 11 | 0.51 |
| (2,4274) | 1:82:A:GLU:HG2 | 1:81:A:LEU:HA | 4 | 0.51 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 10 | 0.51 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB3 | 2 | 0.51 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD11 | 10 | 0.51 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 1 | 0.51 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 19 | 0.51 |
| (2,4119) | 1:5:A:VAL:HG22 | 1:4:A:THR:HB | 1 | 0.51 |
| (2,4039) | 1:45:A:ARG:HA | 1:41:A:VAL:HG23 | 13 | 0.51 |
| (2,4030) | 1:152:A:LYS:HD3 | 1:76:A:TRP:HD1 | 3 | 0.51 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 5 | 0.51 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 2 | 0.51 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 8 | 0.51 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 13 | 0.51 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 16 | 0.51 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 16 | 0.51 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 12 | 0.51 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 17 | 0.51 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 4 | 0.51 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG12 | 14 | 0.51 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 11 | 0.51 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 7 | 0.51 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 16 | 0.51 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 10 | 0.51 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 7 | 0.51 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 20 | 0.51 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD11 | 12 | 0.51 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG22 | 15 | 0.51 |
| (2,3755) | 1:48:A:THR:HG21 | 1:68:A:ARG:HD2 | 9 | 0.51 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 18 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 6 | 0.51 |
| (2,3688) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 18 | 0.51 |
| (2,3660) | 1:66:A:THR:HG21 | 1:52:A:ARG:HB2 | 15 | 0.51 |
| (2,3606) | 1:90:A:PRO:HD3 | 1:88:A:VAL:HG21 | 8 | 0.51 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 11 | 0.51 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 18 | 0.51 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 5 | 0.51 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG12 | 8 | 0.51 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 4 | 0.51 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 13 | 0.51 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 18 | 0.51 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 16 | 0.51 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 10 | 0.51 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 15 | 0.51 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 16 | 0.51 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 1 | 0.51 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 13 | 0.51 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 1 | 0.51 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 3 | 0.51 |
| (2,2747) | 1:122:A:LEU:HD23 | 1:121:A:GLY:H | 3 | 0.51 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 15 | 0.51 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 3 | 0.51 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 8 | 0.51 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 16 | 0.51 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 18 | 0.51 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 20 | 0.51 |
| (2,2410) | 1:109:A:ILE:HG23 | 1:114:A:PHE:HB2 | 2 | 0.51 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 9 | 0.51 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 15 | 0.51 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 14 | 0.51 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 2 | 0.51 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 7 | 0.51 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 9 | 0.51 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 6 | 0.51 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 5 | 0.51 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 8 | 0.51 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 12 | 0.51 |
| (2,2033) | 1:53:A:VAL:HG21 | 1:54:A:LYS:HB2 | 17 | 0.51 |
| (2,2005) | 1:51:A:ILE:HD13 | 1:69:A:ARG:HA | 20 | 0.51 |
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 18 | 0.51 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 16 | 0.51 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 19 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1871) | 1:78:A:ARG:HD3 | 1:89:A:VAL:HG23 | 20 | 0.51 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 9 | 0.51 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 1 | 0.51 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 9 | 0.51 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 15 | 0.51 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD12 | 19 | 0.51 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 3 | 0.51 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 5 | 0.51 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 18 | 0.51 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 2 | 0.51 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 7 | 0.51 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 14 | 0.51 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 15 | 0.51 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 19 | 0.51 |
| (2,1316) | 1:148:A:GLU:HG2 | 1:149:A:ILE:HG21 | 11 | 0.51 |
| (2,1245) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 20 | 0.51 |
| (2,1244) | 1:81:A:LEU:HD22 | 1:135:A:ALA:HB1 | 3 | 0.51 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 13 | 0.51 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 13 | 0.51 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 6 | 0.51 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 8 | 0.51 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 20 | 0.51 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG22 | 7 | 0.51 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 8 | 0.51 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG12 | 8 | 0.51 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG12 | 11 | 0.51 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD11 | 9 | 0.51 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD12 | 20 | 0.51 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 18 | 0.51 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG13 | 3 | 0.51 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 6 | 0.51 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 7 | 0.51 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 19 | 0.51 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 5 | 0.51 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 6 | 0.51 |
| (2,264) | 1:150:A:ILE:HG21 | 1:150:A:ILE:HG13 | 15 | 0.51 |
| (2,264) | 1:150:A:ILE:HG21 | 1:150:A:ILE:HG13 | 17 | 0.51 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 5 | 0.51 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 9 | 0.51 |
| (2,243) | 1:150:A:ILE:HD13 | 1:150:A:ILE:H | 15 | 0.51 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 14 | 0.51 |
| (2,4969) | 1:152:A:LYS:HB2 | 1:76:A:TRP:HE1 | 3 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 16 | 0.5 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 20 | 0.5 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HA | 5 | 0.5 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 11 | 0.5 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 9 | 0.5 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 3 | 0.5 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 9 | 0.5 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 9 | 0.5 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 4 | 0.5 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 15 | 0.5 |
| (2,4775) | 1:11:A:LEU:H | 1:10:A:ARG:HG2 | 7 | 0.5 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 16 | 0.5 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 2 | 0.5 |
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 17 | 0.5 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 15 | 0.5 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 15 | 0.5 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 11 | 0.5 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 18 | 0.5 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 20 | 0.5 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG3 | 14 | 0.5 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 9 | 0.5 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HB2 | 13 | 0.5 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 16 | 0.5 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 7 | 0.5 |
| (2,4506) | 1:77:A:LEU:HD12 | 1:81:A:LEU:HA | 9 | 0.5 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 5 | 0.5 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 3 | 0.5 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 11 | 0.5 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 13 | 0.5 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 18 | 0.5 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 13 | 0.5 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 15 | 0.5 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 5 | 0.5 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 16 | 0.5 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 2 | 0.5 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 7 | 0.5 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 17 | 0.5 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 19 | 0.5 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 5 | 0.5 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 18 | 0.5 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 1 | 0.5 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 13 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 18 | 0.5 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 16 | 0.5 |
| (2,4193) | 1:50:A:GLU:HG3 | 1:68:A:ARG:HD2 | 1 | 0.5 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD13 | 8 | 0.5 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD13 | 19 | 0.5 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 16 | 0.5 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 3 | 0.5 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 12 | 0.5 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 20 | 0.5 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 8 | 0.5 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 18 | 0.5 |
| (2,3982) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HB2 | 18 | 0.5 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 1 | 0.5 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:108:A:GLY:H | 3 | 0.5 |
| (2,3953) | 1:111:A:ASP:HB3 | 1:108:A:GLY:HA2 | 14 | 0.5 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 12 | 0.5 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 18 | 0.5 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 15 | 0.5 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 5 | 0.5 |
| (2,3930) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HG2 | 7 | 0.5 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 15 | 0.5 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 7 | 0.5 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 11 | 0.5 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 15 | 0.5 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 17 | 0.5 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 7 | 0.5 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 10 | 0.5 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 11 | 0.5 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 17 | 0.5 |
| (2,3842) | 1:159:A:ILE:HG21 | 1:142:A:HIS:HA | 2 | 0.5 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 11 | 0.5 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 4 | 0.5 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 7 | 0.5 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 3 | 0.5 |
| (2,3755) | 1:48:A:THR:HG22 | 1:46:A:PHE:HB2 | 2 | 0.5 |
| (2,3754) | 1:145:A:LEU:HA | 1:53:A:VAL:HG12 | 17 | 0.5 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 3 | 0.5 |
| (2,3739) | 1:87:A:VAL:HB | 1:86:A:LYS:H | 4 | 0.5 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 5 | 0.5 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 11 | 0.5 |
| (2,3709) | 1:92:A:LEU:HD12 | 1:79:A:SER:HB3 | 10 | 0.5 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 1 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3708) | 1:92:A:LEU:HD13 | 1:78:A:ARG:H | 17 | 0.5 |
| (2,3676) | 1:11:A:LEU:HA | 1:11:A:LEU:H | 2 | 0.5 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 18 | 0.5 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 16 | 0.5 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 9 | 0.5 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:53:A:VAL:HB | 14 | 0.5 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 15 | 0.5 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 4 | 0.5 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 13 | 0.5 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG12 | 10 | 0.5 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 18 | 0.5 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 17 | 0.5 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 6 | 0.5 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 16 | 0.5 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 5 | 0.5 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 16 | 0.5 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 5 | 0.5 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 7 | 0.5 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 10 | 0.5 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD23 | 5 | 0.5 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 12 | 0.5 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 15 | 0.5 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 9 | 0.5 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 1 | 0.5 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 15 | 0.5 |
| (2,2338) | 1:29:A:LEU:HD22 | 1:130:A:ALA:H | 1 | 0.5 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 10 | 0.5 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD2 | 5 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 3 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 7 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 10 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 13 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 14 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 15 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 16 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 18 | 0.5 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 20 | 0.5 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 7 | 0.5 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 3 | 0.5 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 14 | 0.5 |
| (2,1950) | 1:145:A:LEU:HD21 | 1:145:A:LEU:H | 10 | 0.5 |
| (2,1883) | 1:22:A:TYR:HB2 | 1:22:A:TYR:HA | 18 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD22 | 15 | 0.5 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 2 | 0.5 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 12 | 0.5 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 1 | 0.5 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 8 | 0.5 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 11 | 0.5 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 11 | 0.5 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 19 | 0.5 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 18 | 0.5 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 19 | 0.5 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 20 | 0.5 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB1 | 4 | 0.5 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB2 | 12 | 0.5 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 12 | 0.5 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 11 | 0.5 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 20 | 0.5 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 12 | 0.5 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 19 | 0.5 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 5 | 0.5 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 3 | 0.5 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 8 | 0.5 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 13 | 0.5 |
| (2,748) | 1:122:A:LEU:HD21 | 1:122:A:LEU:H | 1 | 0.5 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 2 | 0.5 |
| (2,629) | 1:129:A:VAL:HG22 | 1:77:A:LEU:HD12 | 7 | 0.5 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG13 | 2 | 0.5 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG11 | 4 | 0.5 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG12 | 20 | 0.5 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 15 | 0.5 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD12 | 5 | 0.5 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD13 | 18 | 0.5 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 10 | 0.5 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 19 | 0.5 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG21 | 3 | 0.5 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG21 | 7 | 0.5 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG21 | 8 | 0.5 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG12 | 5 | 0.5 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG13 | 17 | 0.5 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 5 | 0.5 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 7 | 0.5 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 13 | 0.5 |
| (2,247) | 1:150:A:ILE:HG23 | 1:76:A:TRP:HZ2 | 2 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,224) | 1:155:A:THR:HG22 | 1:139:A:ARG:HG2 | 7 | 0.5 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 9 | 0.49 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB2 | 20 | 0.49 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 17 | 0.49 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 6 | 0.49 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 13 | 0.49 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 5 | 0.49 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 7 | 0.49 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 10 | 0.49 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 13 | 0.49 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 14 | 0.49 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG12 | 12 | 0.49 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 7 | 0.49 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 6 | 0.49 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 18 | 0.49 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 4 | 0.49 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 15 | 0.49 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 17 | 0.49 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 20 | 0.49 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 3 | 0.49 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 19 | 0.49 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 13 | 0.49 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 15 | 0.49 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 3 | 0.49 |
| (2,4493) | 1:29:A:LEU:HD23 | 1:130:A:ALA:HA | 6 | 0.49 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD11 | 9 | 0.49 |
| (2,4471) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HA | 8 | 0.49 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 3 | 0.49 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 16 | 0.49 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 20 | 0.49 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 17 | 0.49 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 6 | 0.49 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 10 | 0.49 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 19 | 0.49 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 3 | 0.49 |
| (2,4347) | 1:38:A:THR:HG23 | 1:110:A:PHE:HZ | 7 | 0.49 |
| (2,4335) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HB3 | 5 | 0.49 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 10 | 0.49 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 12 | 0.49 |
| (2,4309) | 1:86:A:LYS:HB2 | 1:86:A:LYS:HA | 1 | 0.49 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 20 | 0.49 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 1 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 1 | 0.49 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 14 | 0.49 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 3 | 0.49 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD12 | 18 | 0.49 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 2 | 0.49 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 20 | 0.49 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 5 | 0.49 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 18 | 0.49 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 1 | 0.49 |
| (2,4141) | 1:64:A:GLU:HG3 | 1:55:A:THR:H | 14 | 0.49 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 5 | 0.49 |
| (2,4118) | 1:5:A:VAL:HG21 | 1:4:A:THR:HA | 5 | 0.49 |
| (2,4083) | 1:126:A:ILE:HD11 | 1:74:A:PHE:HB3 | 19 | 0.49 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 20 | 0.49 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG22 | 6 | 0.49 |
| (2,4015) | 1:52:A:ARG:HG2 | 1:32:A:ASP:HB2 | 10 | 0.49 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB2 | 16 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 4 | 0.49 |
| (2,3977) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HG2 | 6 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 9 | 0.49 |
| (2,3977) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HG2 | 10 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 15 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 18 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 19 | 0.49 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 20 | 0.49 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 13 | 0.49 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 18 | 0.49 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 2 | 0.49 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 12 | 0.49 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 4 | 0.49 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 6 | 0.49 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG22 | 16 | 0.49 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 9 | 0.49 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 11 | 0.49 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG23 | 17 | 0.49 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 12 | 0.49 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 11 | 0.49 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD12 | 7 | 0.49 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 12 | 0.49 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD13 | 7 | 0.49 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 9 | 0.49 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 19 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3768) | 1:53:A:VAL:HG22 | 1:145:A:LEU:HB3 | 3 | 0.49 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 19 | 0.49 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 8 | 0.49 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 1 | 0.49 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:82:A:GLU:HG3 | 6 | 0.49 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 13 | 0.49 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 17 | 0.49 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD2 | 14 | 0.49 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 3 | 0.49 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 5 | 0.49 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 13 | 0.49 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 14 | 0.49 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 15 | 0.49 |
| (2,3640) | 1:79:A:SER:HB3 | 1:82:A:GLU:HB2 | 2 | 0.49 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 20 | 0.49 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 19 | 0.49 |
| (2,3582) | 1:12:A:ILE:HG13 | 1:11:A:LEU:H | 15 | 0.49 |
| (2,3450) | 1:130:A:ALA:HB2 | 1:132:A:HIS:H | 8 | 0.49 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 14 | 0.49 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD23 | 17 | 0.49 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD22 | 20 | 0.49 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 16 | 0.49 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 8 | 0.49 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 11 | 0.49 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 9 | 0.49 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 11 | 0.49 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 18 | 0.49 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 1 | 0.49 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 6 | 0.49 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 14 | 0.49 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 15 | 0.49 |
| (2,2913) | 1:115:A:ILE:HD11 | 1:37:A:GLN:H | 17 | 0.49 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 4 | 0.49 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 15 | 0.49 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 18 | 0.49 |
| (2,2747) | 1:122:A:LEU:HD22 | 1:121:A:GLY:H | 14 | 0.49 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 17 | 0.49 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 18 | 0.49 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 20 | 0.49 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 13 | 0.49 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD23 | 10 | 0.49 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 18 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 18 | 0.49 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 19 | 0.49 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 20 | 0.49 |
| (2,2258) | 1:130:A:ALA:HB3 | 1:136:A:GLN:HE22 | 10 | 0.49 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD12 | 3 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 1 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 4 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 5 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 8 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 9 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 12 | 0.49 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 17 | 0.49 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 1 | 0.49 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 19 | 0.49 |
| (2,2014) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HD22 | 20 | 0.49 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 9 | 0.49 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 5 | 0.49 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 10 | 0.49 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 3 | 0.49 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 5 | 0.49 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 16 | 0.49 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 3 | 0.49 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD13 | 4 | 0.49 |
| (2,1587) | 1:141:A:LEU:HB3 | 1:141:A:LEU:HD11 | 7 | 0.49 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 10 | 0.49 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 10 | 0.49 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 19 | 0.49 |
| (2,1357) | 1:51:A:ILE:HG21 | 1:34:A:SER:H | 7 | 0.49 |
| (2,1357) | 1:51:A:ILE:HG21 | 1:34:A:SER:H | 10 | 0.49 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 6 | 0.49 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 2 | 0.49 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 9 | 0.49 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 9 | 0.49 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 15 | 0.49 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE2 | 11 | 0.49 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 10 | 0.49 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 14 | 0.49 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB2 | 5 | 0.49 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG23 | 4 | 0.49 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG22 | 15 | 0.49 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 17 | 0.49 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 7 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 6 | 0.49 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 20 | 0.49 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG22 | 12 | 0.49 |
| (2,809) | 1:117:A:GLU:HA | 1:117:A:GLU:HG3 | 12 | 0.49 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 3 | 0.49 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 9 | 0.49 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 16 | 0.49 |
| (2,541) | 1:143:A:MET:HE1 | 1:144:A:PHE:HD2 | 15 | 0.49 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD13 | 12 | 0.49 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD11 | 19 | 0.49 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 5 | 0.49 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG11 | 8 | 0.49 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 12 | 0.49 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG12 | 20 | 0.49 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 11 | 0.49 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 1 | 0.49 |
| (2,257) | 1:150:A:ILE:HD12 | 1:152:A:LYS:HE2 | 3 | 0.49 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG21 | 6 | 0.49 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 3 | 0.49 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 17 | 0.49 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 6 | 0.49 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG23 | 9 | 0.49 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG22 | 15 | 0.49 |
| (2,4) | 1:90:A:PRO:HD2 | 1:129:A:VAL:HG21 | 20 | 0.49 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 19 | 0.48 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 12 | 0.48 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 4 | 0.48 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 14 | 0.48 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 20 | 0.48 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 6 | 0.48 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 8 | 0.48 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 19 | 0.48 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 20 | 0.48 |
| (2,4767) | 1:9:A:ARG:H | 1:9:A:ARG:HD3 | 3 | 0.48 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 6 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD22 | 1:101:A:LEU:H | 6 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 11 | 0.48 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 15 | 0.48 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 10 | 0.48 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 10 | 0.48 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 2 | 0.48 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 12 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 14 | 0.48 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 7 | 0.48 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 5 | 0.48 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 3 | 0.48 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 8 | 0.48 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 16 | 0.48 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 18 | 0.48 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 2 | 0.48 |
| (2,4606) | 1:77:A:LEU:H | 1:125:A:PHE:HE2 | 16 | 0.48 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 1 | 0.48 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 4 | 0.48 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 4 | 0.48 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 16 | 0.48 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 19 | 0.48 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 8 | 0.48 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD11 | 17 | 0.48 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 9 | 0.48 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 12 | 0.48 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 12 | 0.48 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 6 | 0.48 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 13 | 0.48 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 3 | 0.48 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 16 | 0.48 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 10 | 0.48 |
| (2,4341) | 1:144:A:PHE:HA | 1:148:A:GLU:HA | 9 | 0.48 |
| (2,4332) | 1:141:A:LEU:HD11 | 1:132:A:HIS:HB3 | 1 | 0.48 |
| (2,4309) | 1:86:A:LYS:HB2 | 1:86:A:LYS:HA | 6 | 0.48 |
| (2,4309) | 1:86:A:LYS:HB2 | 1:86:A:LYS:HA | 12 | 0.48 |
| (2,4260) | 1:55:A:THR:HG23 | 1:63:A:LYS:HE3 | 4 | 0.48 |
| (2,4260) | 1:55:A:THR:HG22 | 1:63:A:LYS:HE3 | 20 | 0.48 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 17 | 0.48 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD12 | 11 | 0.48 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD23 | 15 | 0.48 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 13 | 0.48 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 10 | 0.48 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 3 | 0.48 |
| (2,4093) | 1:115:A:ILE:HG23 | 1:49:A:TYR:HD2 | 6 | 0.48 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 7 | 0.48 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD3 | 7 | 0.48 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 11 | 0.48 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 1 | 0.48 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 3 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 7 | 0.48 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 17 | 0.48 |
| (2,3963) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 20 | 0.48 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 9 | 0.48 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 19 | 0.48 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 10 | 0.48 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 14 | 0.48 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 15 | 0.48 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 18 | 0.48 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 18 | 0.48 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 4 | 0.48 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 8 | 0.48 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 10 | 0.48 |
| (2,3764) | 1:53:A:VAL:HG23 | 1:30:A:GLU:HG3 | 10 | 0.48 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 14 | 0.48 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 17 | 0.48 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 6 | 0.48 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 20 | 0.48 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 8 | 0.48 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 18 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 1 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 4 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 6 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 8 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 9 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 10 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 16 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 17 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 19 | 0.48 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 20 | 0.48 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 16 | 0.48 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 17 | 0.48 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 19 | 0.48 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 11 | 0.48 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 10 | 0.48 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG12 | 9 | 0.48 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 12 | 0.48 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 4 | 0.48 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 7 | 0.48 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 2 | 0.48 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 7 | 0.48 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 14 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 10 | 0.48 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 5 | 0.48 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 15 | 0.48 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 11 | 0.48 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 17 | 0.48 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 7 | 0.48 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 11 | 0.48 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 11 | 0.48 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 6 | 0.48 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 17 | 0.48 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 12 | 0.48 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 12 | 0.48 |
| (2,2288) | 1:162:A:ALA:HB1 | 1:161:A:HIS:HB2 | 3 | 0.48 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 3 | 0.48 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 17 | 0.48 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 2 | 0.48 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 11 | 0.48 |
| (2,2119) | 1:24:A:PRO:HB2 | 1:24:A:PRO:HG3 | 19 | 0.48 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 6 | 0.48 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 10 | 0.48 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 17 | 0.48 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 4 | 0.48 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 17 | 0.48 |
| (2,1810) | 1:86:A:LYS:HG2 | 1:87:A:VAL:H | 3 | 0.48 |
| (2,1672) | 1:31:A:ILE:HG22 | 1:127:A:ASN:H | 8 | 0.48 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 11 | 0.48 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 12 | 0.48 |
| (2,1520) | 1:57:A:LEU:HD11 | 1:60:A:PHE:H | 3 | 0.48 |
| (2,1478) | 1:15:A:PRO:HA | 1:15:A:PRO:HB2 | 12 | 0.48 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB2 | 6 | 0.48 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 5 | 0.48 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 14 | 0.48 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 13 | 0.48 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 17 | 0.48 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 17 | 0.48 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 12 | 0.48 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 9 | 0.48 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 6 | 0.48 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 20 | 0.48 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 5 | 0.48 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 6 | 0.48 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 14 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 4 | 0.48 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 9 | 0.48 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 12 | 0.48 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 14 | 0.48 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 15 | 0.48 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 20 | 0.48 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 8 | 0.48 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 19 | 0.48 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 17 | 0.48 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG23 | 8 | 0.48 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 12 | 0.48 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 17 | 0.48 |
| (2,523) | 1:122:A:LEU:HD12 | 1:125:A:PHE:HZ | 14 | 0.48 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 1 | 0.48 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 2 | 0.48 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 14 | 0.48 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG13 | 2 | 0.48 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG13 | 6 | 0.48 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG12 | 9 | 0.48 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 11 | 0.48 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 13 | 0.48 |
| (2,423) | 1:87:A:VAL:HG11 | 1:88:A:VAL:HG11 | 19 | 0.48 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 8 | 0.48 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 11 | 0.48 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 15 | 0.48 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 18 | 0.48 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 1 | 0.48 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 20 | 0.48 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 9 | 0.48 |
| (2,243) | 1:150:A:ILE:HD13 | 1:150:A:ILE:H | 17 | 0.48 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 4 | 0.48 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 6 | 0.48 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 16 | 0.48 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 18 | 0.47 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 8 | 0.47 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 17 | 0.47 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 15 | 0.47 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 7 | 0.47 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 7 | 0.47 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 18 | 0.47 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 2 | 0.47 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 3 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 19 | 0.47 |
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 3 | 0.47 |
| (2,4760) | 1:5:A:VAL:HG13 | 1:4:A:THR:H | 19 | 0.47 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 2 | 0.47 |
| (2,4714) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 17 | 0.47 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 10 | 0.47 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 14 | 0.47 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 14 | 0.47 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 9 | 0.47 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 10 | 0.47 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 11 | 0.47 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 17 | 0.47 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 15 | 0.47 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 12 | 0.47 |
| (2,4536) | 1:92:A:LEU:HD11 | 1:125:A:PHE:HE1 | 8 | 0.47 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 20 | 0.47 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 20 | 0.47 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 14 | 0.47 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 19 | 0.47 |
| (2,4473) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HB2 | 6 | 0.47 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 5 | 0.47 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 14 | 0.47 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 17 | 0.47 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 1 | 0.47 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 4 | 0.47 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 11 | 0.47 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 2 | 0.47 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 6 | 0.47 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 19 | 0.47 |
| (2,4350) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD22 | 18 | 0.47 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 5 | 0.47 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 1 | 0.47 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 17 | 0.47 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 19 | 0.47 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 13 | 0.47 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 16 | 0.47 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 2 | 0.47 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 12 | 0.47 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB3 | 6 | 0.47 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 3 | 0.47 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 3 | 0.47 |
| (2,4197) | 1:160:A:ARG:HD2 | 1:59:A:ILE:H | 11 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 7 | 0.47 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 11 | 0.47 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 10 | 0.47 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 9 | 0.47 |
| (2,3977) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HG2 | 5 | 0.47 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG21 | 11 | 0.47 |
| (2,3940) | 1:115:A:ILE:HD12 | 1:109:A:ILE:HA | 3 | 0.47 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 10 | 0.47 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 16 | 0.47 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 7 | 0.47 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 19 | 0.47 |
| (2,3885) | 1:122:A:LEU:HD22 | 1:93:A:PRO:HG2 | 15 | 0.47 |
| (2,3855) | 1:121:A:GLY:HA3 | 1:120:A:GLN:HB2 | 8 | 0.47 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 3 | 0.47 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 1 | 0.47 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 4 | 0.47 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 9 | 0.47 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 3 | 0.47 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 7 | 0.47 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 19 | 0.47 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 3 | 0.47 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD12 | 8 | 0.47 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 12 | 0.47 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 17 | 0.47 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 1 | 0.47 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 5 | 0.47 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 14 | 0.47 |
| (2,3768) | 1:53:A:VAL:HG22 | 1:145:A:LEU:HB3 | 13 | 0.47 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 8 | 0.47 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 9 | 0.47 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 13 | 0.47 |
| (2,3708) | 1:92:A:LEU:HD12 | 1:78:A:ARG:H | 12 | 0.47 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 10 | 0.47 |
| (2,3702) | 1:92:A:LEU:HD21 | 1:75:A:GLU:HG2 | 3 | 0.47 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 3 | 0.47 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD2 | 19 | 0.47 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 2 | 0.47 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 7 | 0.47 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 11 | 0.47 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 12 | 0.47 |
| (2,3645) | 1:125:A:PHE:HB3 | 1:125:A:PHE:HE2 | 18 | 0.47 |
| (2,3322) | 1:100:A:GLN:H | 1:101:A:LEU:HD21 | 3 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 16 | 0.47 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 17 | 0.47 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 9 | 0.47 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 16 | 0.47 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 13 | 0.47 |
| (2,3041) | 1:14:A:LYS:HB3 | 1:14:A:LYS:H | 19 | 0.47 |
| (2,2968) | 1:1:A:THR:H | 1:1:A:THR:HG21 | 12 | 0.47 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 16 | 0.47 |
| (2,2940) | 1:27:A:ASN:HB3 | 1:27:A:ASN:H | 10 | 0.47 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 4 | 0.47 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 7 | 0.47 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 12 | 0.47 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 20 | 0.47 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 10 | 0.47 |
| (2,2539) | 1:86:A:LYS:HB3 | 1:87:A:VAL:H | 4 | 0.47 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 18 | 0.47 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 2 | 0.47 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 6 | 0.47 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 14 | 0.47 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 2 | 0.47 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 16 | 0.47 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 19 | 0.47 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD13 | 9 | 0.47 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 9 | 0.47 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 6 | 0.47 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 19 | 0.47 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 1 | 0.47 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 18 | 0.47 |
| (2,1780) | 1:14:A:LYS:HB3 | 1:15:A:PRO:HD3 | 1 | 0.47 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 15 | 0.47 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 11 | 0.47 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 17 | 0.47 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 12 | 0.47 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB2 | 17 | 0.47 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 15 | 0.47 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 17 | 0.47 |
| (2,1338) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HA | 7 | 0.47 |
| (2,1245) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 5 | 0.47 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 13 | 0.47 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 7 | 0.47 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 14 | 0.47 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 12 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 8 | 0.47 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 17 | 0.47 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 20 | 0.47 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 2 | 0.47 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 4 | 0.47 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 16 | 0.47 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 17 | 0.47 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 8 | 0.47 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 11 | 0.47 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 17 | 0.47 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 11 | 0.47 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 15 | 0.47 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 9 | 0.47 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 2 | 0.47 |
| (2,753) | 1:122:A:LEU:HD21 | 1:33:A:VAL:HG21 | 5 | 0.47 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD13 | 20 | 0.47 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 5 | 0.47 |
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 15 | 0.47 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 5 | 0.47 |
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 19 | 0.47 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 3 | 0.47 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 8 | 0.47 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 17 | 0.47 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 17 | 0.47 |
| (2,423) | 1:87:A:VAL:HG13 | 1:88:A:VAL:HG11 | 7 | 0.47 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 19 | 0.47 |
| (2,361) | 1:89:A:VAL:HG23 | 1:88:A:VAL:H | 4 | 0.47 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 16 | 0.47 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 18 | 0.47 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 11 | 0.47 |
| (2,264) | 1:150:A:ILE:HG21 | 1:150:A:ILE:HG13 | 9 | 0.47 |
| (2,264) | 1:150:A:ILE:HG23 | 1:150:A:ILE:HG13 | 20 | 0.47 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 13 | 0.47 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 15 | 0.47 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 11 | 0.47 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 3 | 0.46 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 13 | 0.46 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 15 | 0.46 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 11 | 0.46 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 4 | 0.46 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 5 | 0.46 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 17 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 6 | 0.46 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 20 | 0.46 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 11 | 0.46 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 9 | 0.46 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG3 | 11 | 0.46 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG23 | 4 | 0.46 |
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 5 | 0.46 |
| (2,4714) | 1:101:A:LEU:HD13 | 1:101:A:LEU:H | 13 | 0.46 |
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 5 | 0.46 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 12 | 0.46 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 13 | 0.46 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 8 | 0.46 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 16 | 0.46 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 7 | 0.46 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 1 | 0.46 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 4 | 0.46 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 5 | 0.46 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 15 | 0.46 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 10 | 0.46 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 2 | 0.46 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 11 | 0.46 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 15 | 0.46 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 13 | 0.46 |
| (2,4556) | 1:58:A:PRO:HD2 | 1:25:A:PRO:HD3 | 11 | 0.46 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 3 | 0.46 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 14 | 0.46 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 20 | 0.46 |
| (2,4437) | 1:31:A:ILE:HG22 | 1:53:A:VAL:HG12 | 20 | 0.46 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 9 | 0.46 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 20 | 0.46 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 7 | 0.46 |
| (2,4395) | 1:54:A:LYS:HA | 1:54:A:LYS:HD2 | 7 | 0.46 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 5 | 0.46 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 7 | 0.46 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 1 | 0.46 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 9 | 0.46 |
| (2,4335) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB3 | 1 | 0.46 |
| (2,4332) | 1:141:A:LEU:HD13 | 1:132:A:HIS:HB3 | 15 | 0.46 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 11 | 0.46 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 11 | 0.46 |
| (2,4204) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD22 | 19 | 0.46 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 19 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 6 | 0.46 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD11 | 1 | 0.46 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 18 | 0.46 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 9 | 0.46 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 15 | 0.46 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG23 | 17 | 0.46 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:125:A:PHE:HD2 | 13 | 0.46 |
| (2,4102) | 1:51:A:ILE:HG22 | 1:53:A:VAL:HB | 5 | 0.46 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 3 | 0.46 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 16 | 0.46 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 16 | 0.46 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB3 | 15 | 0.46 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 14 | 0.46 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 19 | 0.46 |
| (2,3977) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 14 | 0.46 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 11 | 0.46 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 1 | 0.46 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 1 | 0.46 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 12 | 0.46 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 3 | 0.46 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 20 | 0.46 |
| (2,3842) | 1:159:A:ILE:HG22 | 1:142:A:HIS:HA | 9 | 0.46 |
| (2,3840) | 1:55:A:THR:HG22 | 1:60:A:PHE:HE2 | 4 | 0.46 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 14 | 0.46 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 18 | 0.46 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 10 | 0.46 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 2 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 2 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 3 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 8 | 0.46 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 17 | 0.46 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 4 | 0.46 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG22 | 6 | 0.46 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 9 | 0.46 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 12 | 0.46 |
| (2,3640) | 1:79:A:SER:HB3 | 1:82:A:GLU:HB2 | 4 | 0.46 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 5 | 0.46 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 11 | 0.46 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 20 | 0.46 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 3 | 0.46 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 18 | 0.46 |
| (2,3614) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB3 | 16 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 12 | 0.46 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 15 | 0.46 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 18 | 0.46 |
| (2,3053) | 1:16:A:GLN:HG3 | 1:16:A:GLN:H | 2 | 0.46 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 13 | 0.46 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 19 | 0.46 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 7 | 0.46 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 8 | 0.46 |
| (2,2730) | 1:137:A:ASN:H | 1:138:A:GLU:HG3 | 4 | 0.46 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD22 | 11 | 0.46 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 11 | 0.46 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 2 | 0.46 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 9 | 0.46 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 16 | 0.46 |
| (2,2357) | 1:85:A:SER:HB3 | 1:81:A:LEU:HD21 | 12 | 0.46 |
| (2,2354) | 1:59:A:ILE:HD13 | 1:60:A:PHE:HZ | 9 | 0.46 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 3 | 0.46 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 13 | 0.46 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 19 | 0.46 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 20 | 0.46 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 6 | 0.46 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 10 | 0.46 |
| (2,2258) | 1:130:A:ALA:HB1 | 1:136:A:GLN:HE22 | 15 | 0.46 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 15 | 0.46 |
| (2,1953) | 1:145:A:LEU:HD22 | 1:141:A:LEU:HB3 | 5 | 0.46 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 8 | 0.46 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 13 | 0.46 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 13 | 0.46 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 18 | 0.46 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 16 | 0.46 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 17 | 0.46 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 18 | 0.46 |
| (2,1670) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 1 | 0.46 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 4 | 0.46 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 7 | 0.46 |
| (2,1670) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 20 | 0.46 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 2 | 0.46 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 1 | 0.46 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB3 | 2 | 0.46 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 3 | 0.46 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB1 | 12 | 0.46 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 20 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 3 | 0.46 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 2 | 0.46 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG21 | 12 | 0.46 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 5 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 1 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 9 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 13 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 16 | 0.46 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 20 | 0.46 |
| (2,1178) | 1:45:A:ARG:HG2 | 1:40:A:GLY:HA2 | 18 | 0.46 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 7 | 0.46 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 15 | 0.46 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 15 | 0.46 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 9 | 0.46 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG11 | 20 | 0.46 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 2 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 2 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 3 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 4 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 6 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 13 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 16 | 0.46 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 17 | 0.46 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 19 | 0.46 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 1 | 0.46 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 3 | 0.46 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 3 | 0.46 |
| (2,949) | 1:10:A:ARG:HA | 1:10:A:ARG:HB2 | 13 | 0.46 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 18 | 0.46 |
| (2,917) | 1:109:A:ILE:HG22 | 1:110:A:PHE:H | 2 | 0.46 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 10 | 0.46 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 14 | 0.46 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG23 | 5 | 0.46 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 16 | 0.46 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 3 | 0.46 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 16 | 0.46 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 9 | 0.46 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 16 | 0.46 |
| (2,618) | 1:89:A:VAL:HG22 | 1:129:A:VAL:HG13 | 7 | 0.46 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG12 | 12 | 0.46 |
| (2,548) | 1:150:A:ILE:HG22 | 1:143:A:MET:HE3 | 18 | 0.46 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD11 | 3 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 2 | 0.46 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 14 | 0.46 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 9 | 0.46 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 11 | 0.46 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 15 | 0.46 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 2 | 0.46 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 10 | 0.46 |
| (2,361) | 1:89:A:VAL:HG22 | 1:88:A:VAL:H | 14 | 0.46 |
| (2,361) | 1:89:A:VAL:HG21 | 1:88:A:VAL:H | 16 | 0.46 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 19 | 0.46 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD2 | 6 | 0.46 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD1 | 10 | 0.46 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG23 | 11 | 0.46 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 9 | 0.46 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 17 | 0.46 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 20 | 0.46 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 4 | 0.45 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 2 | 0.45 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD12 | 3 | 0.45 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 9 | 0.45 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 12 | 0.45 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 6 | 0.45 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 13 | 0.45 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 8 | 0.45 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 11 | 0.45 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 13 | 0.45 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 11 | 0.45 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 5 | 0.45 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 10 | 0.45 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 15 | 0.45 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 1 | 0.45 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 19 | 0.45 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD2 | 11 | 0.45 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 2 | 0.45 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 5 | 0.45 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 1 | 0.45 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 8 | 0.45 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 9 | 0.45 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 15 | 0.45 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 17 | 0.45 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 7 | 0.45 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 6 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4493) | 1:29:A:LEU:HD22 | 1:130:A:ALA:HA | 16 | 0.45 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 10 | 0.45 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 10 | 0.45 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 4 | 0.45 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 7 | 0.45 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 17 | 0.45 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 19 | 0.45 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 5 | 0.45 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 5 | 0.45 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 20 | 0.45 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 14 | 0.45 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 6 | 0.45 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 7 | 0.45 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 13 | 0.45 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 20 | 0.45 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 13 | 0.45 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 10 | 0.45 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 10 | 0.45 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 15 | 0.45 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 4 | 0.45 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD12 | 19 | 0.45 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 14 | 0.45 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 1 | 0.45 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 9 | 0.45 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 15 | 0.45 |
| (2,4151) | 1:57:A:LEU:HD21 | 1:131:A:GLY:HA3 | 17 | 0.45 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD11 | 9 | 0.45 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 3 | 0.45 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG22 | 6 | 0.45 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 16 | 0.45 |
| (2,4103) | 1:51:A:ILE:HG23 | 1:60:A:PHE:HE2 | 16 | 0.45 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 2 | 0.45 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 5 | 0.45 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 9 | 0.45 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 16 | 0.45 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 18 | 0.45 |
| (2,4015) | 1:43:A:ARG:HG2 | 1:106:A:ASP:HB2 | 16 | 0.45 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 7 | 0.45 |
| (2,3983) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HB3 | 7 | 0.45 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG22 | 8 | 0.45 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE1 | 10 | 0.45 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 14 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 10 | 0.45 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 17 | 0.45 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 18 | 0.45 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 1 | 0.45 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 3 | 0.45 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 9 | 0.45 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 18 | 0.45 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 19 | 0.45 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 6 | 0.45 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 10 | 0.45 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 5 | 0.45 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 6 | 0.45 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 18 | 0.45 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 14 | 0.45 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD13 | 9 | 0.45 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD13 | 19 | 0.45 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 1 | 0.45 |
| (2,3772) | 1:126:A:ILE:HG23 | 1:32:A:ASP:HA | 8 | 0.45 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 9 | 0.45 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 20 | 0.45 |
| (2,3745) | 1:87:A:VAL:HG23 | 1:138:A:GLU:HB2 | 17 | 0.45 |
| (2,3744) | 1:87:A:VAL:HG23 | 1:84:A:GLU:HB2 | 2 | 0.45 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 10 | 0.45 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 18 | 0.45 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 4 | 0.45 |
| (2,3660) | 1:66:A:THR:HG23 | 1:52:A:ARG:HB2 | 16 | 0.45 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 6 | 0.45 |
| (2,3289) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 19 | 0.45 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 15 | 0.45 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD22 | 2 | 0.45 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 10 | 0.45 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 16 | 0.45 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 7 | 0.45 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG22 | 4 | 0.45 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 9 | 0.45 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 19 | 0.45 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 4 | 0.45 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 5 | 0.45 |
| (2,2338) | 1:29:A:LEU:HD21 | 1:130:A:ALA:H | 2 | 0.45 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 11 | 0.45 |
| (2,2315) | 1:77:A:LEU:HD23 | 1:144:A:PHE:H | 15 | 0.45 |
| (2,2312) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HZ | 19 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2298) | 1:18:A:LEU:HD22 | 1:17:A:ASN:H | 5 | 0.45 |
| (2,2263) | 1:134:A:LEU:HD21 | 1:135:A:ALA:HA | 11 | 0.45 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 19 | 0.45 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 1 | 0.45 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 16 | 0.45 |
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 4 | 0.45 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 5 | 0.45 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 18 | 0.45 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 12 | 0.45 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 14 | 0.45 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 15 | 0.45 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 16 | 0.45 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 4 | 0.45 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG22 | 7 | 0.45 |
| (2,1670) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 8 | 0.45 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 11 | 0.45 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 12 | 0.45 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 5 | 0.45 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 16 | 0.45 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 6 | 0.45 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 6 | 0.45 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB1 | 7 | 0.45 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB2 | 13 | 0.45 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB2 | 14 | 0.45 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 4 | 0.45 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 4 | 0.45 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 6 | 0.45 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 16 | 0.45 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 16 | 0.45 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 20 | 0.45 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 10 | 0.45 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 11 | 0.45 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 3 | 0.45 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 2 | 0.45 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 17 | 0.45 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 18 | 0.45 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 4 | 0.45 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 17 | 0.45 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 18 | 0.45 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD13 | 8 | 0.45 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 15 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 1 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 5 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 8 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 11 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 14 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 15 | 0.45 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 20 | 0.45 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 11 | 0.45 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 4 | 0.45 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 11 | 0.45 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 19 | 0.45 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 15 | 0.45 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 7 | 0.45 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 11 | 0.45 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 11 | 0.45 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD11 | 2 | 0.45 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD11 | 1 | 0.45 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 1 | 0.45 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 3 | 0.45 |
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 11 | 0.45 |
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 13 | 0.45 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 13 | 0.45 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 15 | 0.45 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 16 | 0.45 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG22 | 14 | 0.45 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 10 | 0.45 |
| (2,264) | 1:150:A:ILE:HG22 | 1:150:A:ILE:HG13 | 16 | 0.45 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD2 | 16 | 0.45 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 9 | 0.45 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 2 | 0.45 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 5 | 0.45 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 13 | 0.45 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 14 | 0.44 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 5 | 0.44 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HG3 | 14 | 0.44 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 17 | 0.44 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 20 | 0.44 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 12 | 0.44 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 15 | 0.44 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 7 | 0.44 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 8 | 0.44 |
| (2,4775) | 1:11:A:LEU:H | 1:10:A:ARG:HG2 | 16 | 0.44 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 7 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4744) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 9 | 0.44 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 17 | 0.44 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 7 | 0.44 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 6 | 0.44 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 7 | 0.44 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 12 | 0.44 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 16 | 0.44 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 5 | 0.44 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 13 | 0.44 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 14 | 0.44 |
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 20 | 0.44 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 20 | 0.44 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG3 | 11 | 0.44 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 14 | 0.44 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 2 | 0.44 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 2 | 0.44 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 9 | 0.44 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 5 | 0.44 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 15 | 0.44 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 17 | 0.44 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 9 | 0.44 |
| (2,4418) | 1:77:A:LEU:HD13 | 1:144:A:PHE:H | 1 | 0.44 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 4 | 0.44 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 20 | 0.44 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 7 | 0.44 |
| (2,4347) | 1:38:A:THR:HG23 | 1:110:A:PHE:HZ | 6 | 0.44 |
| (2,4343) | 1:145:A:LEU:HB3 | 1:146:A:GLN:HG3 | 14 | 0.44 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 9 | 0.44 |
| (2,4309) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HA | 9 | 0.44 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 15 | 0.44 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 20 | 0.44 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 20 | 0.44 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 3 | 0.44 |
| (2,4186) | 1:77:A:LEU:HD21 | 1:140:A:CYS:HB3 | 17 | 0.44 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 11 | 0.44 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG23 | 4 | 0.44 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD2 | 7 | 0.44 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 9 | 0.44 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD2 | 11 | 0.44 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 15 | 0.44 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 20 | 0.44 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 19 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3953) | 1:111:A:ASP:HB3 | 1:108:A:GLY:HA2 | 10 | 0.44 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 1 | 0.44 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 5 | 0.44 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 6 | 0.44 |
| (2,3913) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 14 | 0.44 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 2 | 0.44 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 5 | 0.44 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 7 | 0.44 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 6 | 0.44 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 12 | 0.44 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 20 | 0.44 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 9 | 0.44 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 3 | 0.44 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 11 | 0.44 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 13 | 0.44 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 15 | 0.44 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 16 | 0.44 |
| (2,3768) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB3 | 11 | 0.44 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 7 | 0.44 |
| (2,3762) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 11 | 0.44 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 10 | 0.44 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 19 | 0.44 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 19 | 0.44 |
| (2,3691) | 1:150:A:ILE:HD11 | 1:143:A:MET:HB2 | 19 | 0.44 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 7 | 0.44 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 12 | 0.44 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 15 | 0.44 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 18 | 0.44 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 3 | 0.44 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 5 | 0.44 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 12 | 0.44 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 18 | 0.44 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 10 | 0.44 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 7 | 0.44 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 18 | 0.44 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 14 | 0.44 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 20 | 0.44 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 11 | 0.44 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 11 | 0.44 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 14 | 0.44 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 20 | 0.44 |
| (2,2691) | 1:37:A:GLN:HE22 | 1:37:A:GLN:HB3 | 9 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 15 | 0.44 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 6 | 0.44 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD21 | 20 | 0.44 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 11 | 0.44 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 12 | 0.44 |
| (2,2410) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HB2 | 10 | 0.44 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 6 | 0.44 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 12 | 0.44 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 5 | 0.44 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 8 | 0.44 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD21 | 20 | 0.44 |
| (2,2315) | 1:77:A:LEU:HD21 | 1:144:A:PHE:H | 5 | 0.44 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 12 | 0.44 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 4 | 0.44 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 17 | 0.44 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 2 | 0.44 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD13 | 15 | 0.44 |
| (2,2107) | 1:98:A:LEU:HD11 | 1:97:A:PHE:HZ | 13 | 0.44 |
| (2,2107) | 1:98:A:LEU:HD12 | 1:97:A:PHE:HZ | 18 | 0.44 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 11 | 0.44 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 13 | 0.44 |
| (2,2011) | 1:134:A:LEU:HD12 | 1:88:A:VAL:H | 16 | 0.44 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 5 | 0.44 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 7 | 0.44 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 20 | 0.44 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 2 | 0.44 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 1 | 0.44 |
| (2,1702) | 1:36:A:PRO:HD3 | 1:36:A:PRO:HB3 | 15 | 0.44 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 6 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 2 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 9 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 17 | 0.44 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 18 | 0.44 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG22 | 4 | 0.44 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 16 | 0.44 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 18 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB3 | 10 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB1 | 16 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB1 | 18 | 0.44 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 19 | 0.44 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 8 | 0.44 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 12 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 6 | 0.44 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 8 | 0.44 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 16 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 8 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 10 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 11 | 0.44 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 18 | 0.44 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG22 | 13 | 0.44 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 6 | 0.44 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 4 | 0.44 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 11 | 0.44 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 4 | 0.44 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 4 | 0.44 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 10 | 0.44 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 10 | 0.44 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 19 | 0.44 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 5 | 0.44 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 16 | 0.44 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 18 | 0.44 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG23 | 16 | 0.44 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG21 | 17 | 0.44 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 6 | 0.44 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 14 | 0.44 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 1 | 0.44 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 6 | 0.44 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 13 | 0.44 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 8 | 0.44 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 13 | 0.44 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 20 | 0.44 |
| (2,618) | 1:89:A:VAL:HG21 | 1:129:A:VAL:HG11 | 17 | 0.44 |
| (2,539) | 1:143:A:MET:HE2 | 1:154:A:TYR:H | 6 | 0.44 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG21 | 1 | 0.44 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG23 | 4 | 0.44 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 8 | 0.44 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 15 | 0.44 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 18 | 0.44 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 4 | 0.44 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 8 | 0.44 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 12 | 0.44 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 15 | 0.44 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 20 | 0.44 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 5 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 8 | 0.43 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 1 | 0.43 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 9 | 0.43 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 4 | 0.43 |
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 6 | 0.43 |
| (2,4716) | 1:105:A:GLY:H | 1:110:A:PHE:HB2 | 4 | 0.43 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 15 | 0.43 |
| (2,4704) | 1:31:A:ILE:HD13 | 1:130:A:ALA:H | 11 | 0.43 |
| (2,4704) | 1:31:A:ILE:HD12 | 1:130:A:ALA:H | 13 | 0.43 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 5 | 0.43 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG3 | 9 | 0.43 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 8 | 0.43 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 9 | 0.43 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 19 | 0.43 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 10 | 0.43 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 18 | 0.43 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 19 | 0.43 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 7 | 0.43 |
| (2,4515) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HD2 | 10 | 0.43 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:136:A:GLN:HB3 | 13 | 0.43 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 6 | 0.43 |
| (2,4468) | 1:77:A:LEU:HD12 | 1:141:A:LEU:HG | 7 | 0.43 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 20 | 0.43 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 17 | 0.43 |
| (2,4398) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HD2 | 14 | 0.43 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 9 | 0.43 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 4 | 0.43 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 10 | 0.43 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 9 | 0.43 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 4 | 0.43 |
| (2,4240) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 3 | 0.43 |
| (2,4240) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 6 | 0.43 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG21 | 9 | 0.43 |
| (2,4239) | 1:51:A:ILE:HB | 1:31:A:ILE:HG23 | 15 | 0.43 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 7 | 0.43 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 9 | 0.43 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 6 | 0.43 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB3 | 9 | 0.43 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 20 | 0.43 |
| (2,4202) | 1:159:A:ILE:HG21 | 1:160:A:ARG:HD3 | 19 | 0.43 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 15 | 0.43 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 2 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 4 | 0.43 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 4 | 0.43 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 11 | 0.43 |
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 14 | 0.43 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 3 | 0.43 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 6 | 0.43 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 15 | 0.43 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 17 | 0.43 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 18 | 0.43 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 10 | 0.43 |
| (2,3990) | 1:26:A:SER:HB2 | 1:25:A:PRO:HB2 | 7 | 0.43 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 14 | 0.43 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 8 | 0.43 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 15 | 0.43 |
| (2,3947) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 7 | 0.43 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 8 | 0.43 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 13 | 0.43 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 4 | 0.43 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 5 | 0.43 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 8 | 0.43 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 1 | 0.43 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 15 | 0.43 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 16 | 0.43 |
| (2,3840) | 1:55:A:THR:HG23 | 1:60:A:PHE:HE2 | 17 | 0.43 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 9 | 0.43 |
| (2,3807) | 1:129:A:VAL:HB | 1:141:A:LEU:HD13 | 6 | 0.43 |
| (2,3775) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 18 | 0.43 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 17 | 0.43 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 1 | 0.43 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 12 | 0.43 |
| (2,3706) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 20 | 0.43 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD2 | 10 | 0.43 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 14 | 0.43 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 4 | 0.43 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 12 | 0.43 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 16 | 0.43 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 12 | 0.43 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 20 | 0.43 |
| (2,3566) | 1:1:A:THR:H | 1:2:A:ALA:HB1 | 11 | 0.43 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 3 | 0.43 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 9 | 0.43 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 17 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 15 | 0.43 |
| (2,3024) | 1:11:A:LEU:HD11 | 1:10:A:ARG:H | 1 | 0.43 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG22 | 17 | 0.43 |
| (2,2727) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HD13 | 5 | 0.43 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 17 | 0.43 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 12 | 0.43 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 5 | 0.43 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 11 | 0.43 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 13 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 1 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 2 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 3 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 6 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 7 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 9 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 10 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 11 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 12 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 13 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 14 | 0.43 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 20 | 0.43 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 7 | 0.43 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 20 | 0.43 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 1 | 0.43 |
| (2,2263) | 1:134:A:LEU:HD22 | 1:135:A:ALA:HA | 14 | 0.43 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 17 | 0.43 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 3 | 0.43 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 7 | 0.43 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 8 | 0.43 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 8 | 0.43 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 3 | 0.43 |
| (2,2011) | 1:134:A:LEU:HD12 | 1:88:A:VAL:H | 15 | 0.43 |
| (2,1965) | 1:149:A:ILE:HD12 | 1:150:A:ILE:HA | 9 | 0.43 |
| (2,1934) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 13 | 0.43 |
| (2,1915) | 1:134:A:LEU:HD22 | 1:86:A:LYS:HB3 | 18 | 0.43 |
| (2,1865) | 1:98:A:LEU:HD12 | 1:94:A:GLY:HA3 | 20 | 0.43 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 10 | 0.43 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 16 | 0.43 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 15 | 0.43 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 13 | 0.43 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 5 | 0.43 |
| (2,1670) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 6 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 8 | 0.43 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 10 | 0.43 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 13 | 0.43 |
| (2,1525) | 1:57:A:LEU:HD12 | 1:29:A:LEU:HA | 7 | 0.43 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 12 | 0.43 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 17 | 0.43 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 9 | 0.43 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 15 | 0.43 |
| (2,1380) | 1:135:A:ALA:HB1 | 1:141:A:LEU:HD23 | 20 | 0.43 |
| (2,1376) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HZ | 2 | 0.43 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 13 | 0.43 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 4 | 0.43 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 1 | 0.43 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 14 | 0.43 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 3 | 0.43 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD21 | 5 | 0.43 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 6 | 0.43 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 19 | 0.43 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 4 | 0.43 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 16 | 0.43 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 3 | 0.43 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 17 | 0.43 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 20 | 0.43 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 3 | 0.43 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 8 | 0.43 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 15 | 0.43 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 9 | 0.43 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 12 | 0.43 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 2 | 0.43 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 10 | 0.43 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 19 | 0.43 |
| (2,917) | 1:109:A:ILE:HG22 | 1:110:A:PHE:H | 1 | 0.43 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 5 | 0.43 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 18 | 0.43 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 15 | 0.43 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 14 | 0.43 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG13 | 9 | 0.43 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 14 | 0.43 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 10 | 0.43 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 17 | 0.43 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 18 | 0.43 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 19 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 18 | 0.43 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 20 | 0.43 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 1 | 0.43 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 10 | 0.43 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 12 | 0.43 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 14 | 0.43 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 18 | 0.43 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 7 | 0.43 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 3 | 0.43 |
| (2,257) | 1:150:A:ILE:HD11 | 1:152:A:LYS:HE2 | 10 | 0.43 |
| (2,247) | 1:150:A:ILE:HG21 | 1:76:A:TRP:HZ2 | 20 | 0.43 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 1 | 0.43 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 11 | 0.43 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 16 | 0.42 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 20 | 0.42 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD11 | 11 | 0.42 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 10 | 0.42 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 11 | 0.42 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 14 | 0.42 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 15 | 0.42 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 4 | 0.42 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 11 | 0.42 |
| (2,4801) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 20 | 0.42 |
| (2,4777) | 1:11:A:LEU:HD11 | 1:12:A:ILE:H | 8 | 0.42 |
| (2,4727) | 1:33:A:VAL:HG23 | 1:50:A:GLU:H | 17 | 0.42 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 8 | 0.42 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 3 | 0.42 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 7 | 0.42 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 8 | 0.42 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 1 | 0.42 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 10 | 0.42 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 1 | 0.42 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 6 | 0.42 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 7 | 0.42 |
| (2,4644) | 1:66:A:THR:H | 1:62:A:LEU:HB2 | 13 | 0.42 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 7 | 0.42 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 7 | 0.42 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 14 | 0.42 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 19 | 0.42 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 7 | 0.42 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 17 | 0.42 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 18 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 17 | 0.42 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 14 | 0.42 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 10 | 0.42 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 12 | 0.42 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 8 | 0.42 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 10 | 0.42 |
| (2,4480) | 1:92:A:LEU:HD13 | 1:76:A:TRP:H | 7 | 0.42 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 7 | 0.42 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 5 | 0.42 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 15 | 0.42 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 18 | 0.42 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 20 | 0.42 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 5 | 0.42 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 8 | 0.42 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG23 | 12 | 0.42 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 17 | 0.42 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 4 | 0.42 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD3 | 3 | 0.42 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 14 | 0.42 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 2 | 0.42 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD11 | 15 | 0.42 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 19 | 0.42 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 7 | 0.42 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 14 | 0.42 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 17 | 0.42 |
| (2,4084) | 1:51:A:ILE:HD11 | 1:34:A:SER:H | 20 | 0.42 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 20 | 0.42 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 3 | 0.42 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 13 | 0.42 |
| (2,3963) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 12 | 0.42 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 13 | 0.42 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 13 | 0.42 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 10 | 0.42 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 3 | 0.42 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 4 | 0.42 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 7 | 0.42 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 15 | 0.42 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 16 | 0.42 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 1 | 0.42 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 15 | 0.42 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 2 | 0.42 |
| (2,3795) | 1:130:A:ALA:HB2 | 1:131:A:GLY:H | 17 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3795) | 1:130:A:ALA:HB1 | 1:60:A:PHE:HE2 | 18 | 0.42 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 18 | 0.42 |
| (2,3759) | 1:53:A:VAL:HG22 | 1:55:A:THR:H | 6 | 0.42 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 1 | 0.42 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 19 | 0.42 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:78:A:ARG:HB2 | 4 | 0.42 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HG3 | 12 | 0.42 |
| (2,3702) | 1:92:A:LEU:HD22 | 1:75:A:GLU:HG2 | 4 | 0.42 |
| (2,3639) | 1:79:A:SER:HB3 | 1:78:A:ARG:HG2 | 4 | 0.42 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 2 | 0.42 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 9 | 0.42 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 16 | 0.42 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 20 | 0.42 |
| (2,3567) | 1:68:A:ARG:H | 1:149:A:ILE:HG23 | 4 | 0.42 |
| (2,3450) | 1:130:A:ALA:HB3 | 1:132:A:HIS:H | 5 | 0.42 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 9 | 0.42 |
| (2,3328) | 1:158:A:LYS:HG2 | 1:158:A:LYS:H | 9 | 0.42 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 5 | 0.42 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 8 | 0.42 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 11 | 0.42 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG13 | 4 | 0.42 |
| (2,3112) | 1:27:A:ASN:HD21 | 1:58:A:PRO:HD2 | 5 | 0.42 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 2 | 0.42 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 4 | 0.42 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 3 | 0.42 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 8 | 0.42 |
| (2,2850) | 1:100:A:GLN:HB2 | 1:101:A:LEU:H | 6 | 0.42 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 9 | 0.42 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 2 | 0.42 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 4 | 0.42 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 13 | 0.42 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 18 | 0.42 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 3 | 0.42 |
| (2,2598) | 1:138:A:GLU:HB2 | 1:138:A:GLU:H | 8 | 0.42 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 5 | 0.42 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 7 | 0.42 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 2 | 0.42 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 19 | 0.42 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 1 | 0.42 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 7 | 0.42 |
| (2,2408) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HG2 | 20 | 0.42 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 4 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 15 | 0.42 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 16 | 0.42 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 18 | 0.42 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 19 | 0.42 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 4 | 0.42 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 17 | 0.42 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 5 | 0.42 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 19 | 0.42 |
| (2,2258) | 1:130:A:ALA:HB1 | 1:136:A:GLN:HE22 | 8 | 0.42 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD13 | 5 | 0.42 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 7 | 0.42 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD13 | 18 | 0.42 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 4 | 0.42 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD1 | 20 | 0.42 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 6 | 0.42 |
| (2,2107) | 1:98:A:LEU:HD13 | 1:97:A:PHE:HZ | 15 | 0.42 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 10 | 0.42 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 19 | 0.42 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 1 | 0.42 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG21 | 20 | 0.42 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 8 | 0.42 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 5 | 0.42 |
| (2,1670) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 3 | 0.42 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 13 | 0.42 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 14 | 0.42 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 17 | 0.42 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 7 | 0.42 |
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 14 | 0.42 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 1 | 0.42 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 9 | 0.42 |
| (2,1401) | 1:39:A:VAL:HG22 | 1:46:A:PHE:HE2 | 14 | 0.42 |
| (2,1401) | 1:39:A:VAL:HG22 | 1:46:A:PHE:HE2 | 17 | 0.42 |
| (2,1380) | 1:135:A:ALA:HB2 | 1:141:A:LEU:HD23 | 15 | 0.42 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 3 | 0.42 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 12 | 0.42 |
| (2,1371) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HD2 | 16 | 0.42 |
| (2,1362) | 1:135:A:ALA:HB2 | 1:132:A:HIS:HB2 | 3 | 0.42 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 2 | 0.42 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 9 | 0.42 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 4 | 0.42 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 15 | 0.42 |
| (2,1116) | 1:149:A:ILE:HD12 | 1:148:A:GLU:HA | 3 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 5 | 0.42 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 8 | 0.42 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 11 | 0.42 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 16 | 0.42 |
| (2,990) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HD2 | 18 | 0.42 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG23 | 2 | 0.42 |
| (2,941) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB3 | 10 | 0.42 |
| (2,940) | 1:106:A:ASP:HB3 | 1:109:A:ILE:HG22 | 2 | 0.42 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 16 | 0.42 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 19 | 0.42 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 13 | 0.42 |
| (2,855) | 1:115:A:ILE:HG23 | 1:112:A:ASP:HA | 13 | 0.42 |
| (2,855) | 1:115:A:ILE:HG22 | 1:112:A:ASP:HA | 15 | 0.42 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 14 | 0.42 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 10 | 0.42 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 15 | 0.42 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 13 | 0.42 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD13 | 9 | 0.42 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 4 | 0.42 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 17 | 0.42 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 14 | 0.42 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 18 | 0.42 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG22 | 7 | 0.42 |
| (2,485) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 4 | 0.42 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 7 | 0.42 |
| (2,454) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD12 | 4 | 0.42 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 2 | 0.42 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG13 | 4 | 0.42 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 6 | 0.42 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 13 | 0.42 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 8 | 0.42 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 9 | 0.42 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 2 | 0.42 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 7 | 0.42 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 3 | 0.42 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 10 | 0.42 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 1 | 0.41 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 13 | 0.41 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HA | 18 | 0.41 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 4 | 0.41 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 7 | 0.41 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 4 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 13 | 0.41 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 8 | 0.41 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 11 | 0.41 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 17 | 0.41 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 20 | 0.41 |
| (2,4801) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 1 | 0.41 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 7 | 0.41 |
| (2,4801) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 8 | 0.41 |
| (2,4775) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 2 | 0.41 |
| (2,4736) | 1:138:A:GLU:HG2 | 1:135:A:ALA:H | 17 | 0.41 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 3 | 0.41 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 8 | 0.41 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 14 | 0.41 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 20 | 0.41 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 9 | 0.41 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 18 | 0.41 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 9 | 0.41 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD12 | 15 | 0.41 |
| (2,4683) | 1:137:A:ASN:H | 1:132:A:HIS:HD2 | 2 | 0.41 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 1 | 0.41 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 3 | 0.41 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 10 | 0.41 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 1 | 0.41 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 5 | 0.41 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 10 | 0.41 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 17 | 0.41 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 2 | 0.41 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 12 | 0.41 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 7 | 0.41 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD13 | 5 | 0.41 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 3 | 0.41 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD11 | 20 | 0.41 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 10 | 0.41 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 6 | 0.41 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG13 | 13 | 0.41 |
| (2,4423) | 1:122:A:LEU:HG | 1:33:A:VAL:HG11 | 14 | 0.41 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 13 | 0.41 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 18 | 0.41 |
| (2,4398) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HD2 | 13 | 0.41 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 3 | 0.41 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 6 | 0.41 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 15 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4358) | 1:157:A:SER:HA | 1:158:A:LYS:HD3 | 9 | 0.41 |
| (2,4349) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HB3 | 20 | 0.41 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD2 | 20 | 0.41 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 12 | 0.41 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 14 | 0.41 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 16 | 0.41 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 5 | 0.41 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 10 | 0.41 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG23 | 9 | 0.41 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG2 | 11 | 0.41 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 2 | 0.41 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 8 | 0.41 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 16 | 0.41 |
| (2,4182) | 1:141:A:LEU:HD12 | 1:143:A:MET:HG2 | 19 | 0.41 |
| (2,4155) | 1:57:A:LEU:HG | 1:59:A:ILE:H | 10 | 0.41 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 8 | 0.41 |
| (2,4122) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HE1 | 9 | 0.41 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 13 | 0.41 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 11 | 0.41 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD2 | 5 | 0.41 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 11 | 0.41 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 17 | 0.41 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 3 | 0.41 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 14 | 0.41 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 20 | 0.41 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 3 | 0.41 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 16 | 0.41 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 2 | 0.41 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 12 | 0.41 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 19 | 0.41 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 4 | 0.41 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 13 | 0.41 |
| (2,3844) | 1:159:A:ILE:HG22 | 1:139:A:ARG:HA | 18 | 0.41 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 5 | 0.41 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 11 | 0.41 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 18 | 0.41 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 19 | 0.41 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 20 | 0.41 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD12 | 13 | 0.41 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD13 | 15 | 0.41 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 7 | 0.41 |
| (2,3759) | 1:53:A:VAL:HG23 | 1:30:A:GLU:H | 13 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 4 | 0.41 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 14 | 0.41 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 12 | 0.41 |
| (2,3691) | 1:150:A:ILE:HD11 | 1:143:A:MET:HB2 | 8 | 0.41 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 1 | 0.41 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 13 | 0.41 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 17 | 0.41 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 15 | 0.41 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 8 | 0.41 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 10 | 0.41 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 13 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 1 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 2 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 3 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 5 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 6 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 11 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 16 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 17 | 0.41 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 18 | 0.41 |
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 3 | 0.41 |
| (2,3278) | 1:66:A:THR:HG21 | 1:66:A:THR:H | 1 | 0.41 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 14 | 0.41 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 19 | 0.41 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD11 | 2 | 0.41 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 18 | 0.41 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 7 | 0.41 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 11 | 0.41 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 14 | 0.41 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG22 | 2 | 0.41 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 16 | 0.41 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 18 | 0.41 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 3 | 0.41 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 11 | 0.41 |
| (2,2710) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HB2 | 12 | 0.41 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 17 | 0.41 |
| (2,2479) | 1:141:A:LEU:H | 1:138:A:GLU:HB3 | 8 | 0.41 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 15 | 0.41 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 10 | 0.41 |
| (2,2396) | 1:91:A:PRO:HB3 | 1:91:A:PRO:HD2 | 17 | 0.41 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 18 | 0.41 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 4 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 1 | 0.41 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 4 | 0.41 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 11 | 0.41 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 6 | 0.41 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 19 | 0.41 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 8 | 0.41 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 16 | 0.41 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 6 | 0.41 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 13 | 0.41 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD13 | 10 | 0.41 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 9 | 0.41 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 9 | 0.41 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 4 | 0.41 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 12 | 0.41 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 9 | 0.41 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 19 | 0.41 |
| (2,1702) | 1:36:A:PRO:HD3 | 1:36:A:PRO:HB3 | 20 | 0.41 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 1 | 0.41 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 12 | 0.41 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 19 | 0.41 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 10 | 0.41 |
| (2,1612) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB3 | 7 | 0.41 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 1 | 0.41 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 5 | 0.41 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 9 | 0.41 |
| (2,1362) | 1:135:A:ALA:HB1 | 1:132:A:HIS:HB2 | 9 | 0.41 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 18 | 0.41 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 4 | 0.41 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 15 | 0.41 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 10 | 0.41 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG21 | 20 | 0.41 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB3 | 9 | 0.41 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD22 | 4 | 0.41 |
| (2,1189) | 1:29:A:LEU:HA | 1:29:A:LEU:HD23 | 15 | 0.41 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG23 | 20 | 0.41 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 11 | 0.41 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 19 | 0.41 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 11 | 0.41 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 14 | 0.41 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 16 | 0.41 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 2 | 0.41 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD13 | 16 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD13 | 11 | 0.41 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 16 | 0.41 |
| (2,1072) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HD2 | 14 | 0.41 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 12 | 0.41 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 3 | 0.41 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 13 | 0.41 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 4 | 0.41 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 12 | 0.41 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 6 | 0.41 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 16 | 0.41 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 7 | 0.41 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 11 | 0.41 |
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 12 | 0.41 |
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 14 | 0.41 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 17 | 0.41 |
| (2,628) | 1:129:A:VAL:HG11 | 1:77:A:LEU:HD12 | 3 | 0.41 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD12 | 12 | 0.41 |
| (2,539) | 1:143:A:MET:HE2 | 1:154:A:TYR:H | 17 | 0.41 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG23 | 2 | 0.41 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 10 | 0.41 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 11 | 0.41 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD11 | 4 | 0.41 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD12 | 14 | 0.41 |
| (2,490) | 1:126:A:ILE:HG23 | 1:127:A:ASN:HB3 | 6 | 0.41 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 9 | 0.41 |
| (2,485) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 6 | 0.41 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 4 | 0.41 |
| (2,423) | 1:87:A:VAL:HG12 | 1:88:A:VAL:HG13 | 1 | 0.41 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 17 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 11 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 16 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 17 | 0.41 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 20 | 0.41 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 4 | 0.41 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 5 | 0.41 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD1 | 20 | 0.41 |
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 17 | 0.41 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 11 | 0.41 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 2 | 0.4 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 15 | 0.4 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 4 | 0.4 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD12 | 19 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 3 | 0.4 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 7 | 0.4 |
| (2,4777) | 1:11:A:LEU:HD11 | 1:12:A:ILE:H | 13 | 0.4 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD3 | 15 | 0.4 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 20 | 0.4 |
| (2,4704) | 1:31:A:ILE:HD11 | 1:130:A:ALA:H | 3 | 0.4 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 17 | 0.4 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 8 | 0.4 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 11 | 0.4 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 5 | 0.4 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD12 | 16 | 0.4 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 16 | 0.4 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 19 | 0.4 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 8 | 0.4 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG13 | 18 | 0.4 |
| (2,4648) | 1:145:A:LEU:H | 1:67:A:VAL:HG22 | 15 | 0.4 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 11 | 0.4 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 9 | 0.4 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 16 | 0.4 |
| (2,4563) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 9 | 0.4 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 9 | 0.4 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 11 | 0.4 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 14 | 0.4 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 17 | 0.4 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 13 | 0.4 |
| (2,4480) | 1:92:A:LEU:HD13 | 1:76:A:TRP:H | 14 | 0.4 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 6 | 0.4 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:126:A:ILE:HB | 8 | 0.4 |
| (2,4471) | 1:77:A:LEU:HD11 | 1:141:A:LEU:HA | 14 | 0.4 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG12 | 11 | 0.4 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 8 | 0.4 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 2 | 0.4 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 10 | 0.4 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 13 | 0.4 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 14 | 0.4 |
| (2,4335) | 1:77:A:LEU:HD21 | 1:141:A:LEU:HB3 | 9 | 0.4 |
| (2,4335) | 1:77:A:LEU:HD21 | 1:141:A:LEU:HB3 | 10 | 0.4 |
| (2,4335) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HB3 | 12 | 0.4 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 14 | 0.4 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 3 | 0.4 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 11 | 0.4 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 12 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4233) | 1:35:A:ASN:HB2 | 1:36:A:PRO:HD2 | 5 | 0.4 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG23 | 14 | 0.4 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 15 | 0.4 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG3 | 2 | 0.4 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD13 | 1 | 0.4 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD12 | 5 | 0.4 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 3 | 0.4 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 17 | 0.4 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HE1 | 3 | 0.4 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 9 | 0.4 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 12 | 0.4 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 13 | 0.4 |
| (2,4057) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG2 | 9 | 0.4 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 13 | 0.4 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB2 | 13 | 0.4 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 18 | 0.4 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 2 | 0.4 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 5 | 0.4 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 15 | 0.4 |
| (2,3963) | 1:109:A:ILE:HD11 | 1:107:A:ASP:HB2 | 9 | 0.4 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 9 | 0.4 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 8 | 0.4 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 20 | 0.4 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 7 | 0.4 |
| (2,3869) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD21 | 19 | 0.4 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 19 | 0.4 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 5 | 0.4 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 4 | 0.4 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 6 | 0.4 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 14 | 0.4 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 9 | 0.4 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 6 | 0.4 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 11 | 0.4 |
| (2,3771) | 1:126:A:ILE:HG23 | 1:125:A:PHE:HD2 | 4 | 0.4 |
| (2,3771) | 1:126:A:ILE:HG21 | 1:125:A:PHE:HD2 | 6 | 0.4 |
| (2,3755) | 1:48:A:THR:HG22 | 1:68:A:ARG:HD2 | 7 | 0.4 |
| (2,3727) | 1:89:A:VAL:HA | 1:128:A:LYS:HB2 | 9 | 0.4 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 3 | 0.4 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 14 | 0.4 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 15 | 0.4 |
| (2,3708) | 1:92:A:LEU:HD13 | 1:78:A:ARG:H | 18 | 0.4 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 15 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3703) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HG3 | 18 | 0.4 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 13 | 0.4 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 17 | 0.4 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 7 | 0.4 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 11 | 0.4 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 20 | 0.4 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 15 | 0.4 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 10 | 0.4 |
| (2,3639) | 1:79:A:SER:HB3 | 1:78:A:ARG:HG2 | 1 | 0.4 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 13 | 0.4 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 4 | 0.4 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 8 | 0.4 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 10 | 0.4 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 14 | 0.4 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 19 | 0.4 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG22 | 15 | 0.4 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 17 | 0.4 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 19 | 0.4 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 4 | 0.4 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 6 | 0.4 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 12 | 0.4 |
| (2,2617) | 1:146:A:GLN:H | 1:145:A:LEU:HD23 | 13 | 0.4 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 11 | 0.4 |
| (2,2408) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HG2 | 18 | 0.4 |
| (2,2384) | 1:60:A:PHE:HB3 | 1:57:A:LEU:HB3 | 3 | 0.4 |
| (2,2381) | 1:83:A:ARG:HD3 | 1:84:A:GLU:HG3 | 1 | 0.4 |
| (2,2354) | 1:59:A:ILE:HD13 | 1:60:A:PHE:HZ | 6 | 0.4 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 14 | 0.4 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 7 | 0.4 |
| (2,2315) | 1:77:A:LEU:HD22 | 1:144:A:PHE:H | 8 | 0.4 |
| (2,2273) | 1:145:A:LEU:HA | 1:145:A:LEU:HG | 14 | 0.4 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 2 | 0.4 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 3 | 0.4 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 10 | 0.4 |
| (2,2264) | 1:134:A:LEU:HD12 | 1:133:A:PRO:HA | 16 | 0.4 |
| (2,2263) | 1:134:A:LEU:HD23 | 1:135:A:ALA:HA | 2 | 0.4 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 6 | 0.4 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 9 | 0.4 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 19 | 0.4 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 2 | 0.4 |
| (2,2094) | 1:98:A:LEU:HD22 | 1:97:A:PHE:HZ | 13 | 0.4 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 18 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 6 | 0.4 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 8 | 0.4 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 18 | 0.4 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 9 | 0.4 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 20 | 0.4 |
| (2,1756) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HB2 | 4 | 0.4 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 2 | 0.4 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 3 | 0.4 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 7 | 0.4 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 14 | 0.4 |
| (2,1670) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 10 | 0.4 |
| (2,1670) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 15 | 0.4 |
| (2,1625) | 1:160:A:ARG:HD3 | 1:159:A:ILE:HB | 17 | 0.4 |
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 6 | 0.4 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 13 | 0.4 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 3 | 0.4 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 16 | 0.4 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 16 | 0.4 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB3 | 11 | 0.4 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 9 | 0.4 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 18 | 0.4 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 7 | 0.4 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 13 | 0.4 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 16 | 0.4 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 18 | 0.4 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 6 | 0.4 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 17 | 0.4 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 1 | 0.4 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 8 | 0.4 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 18 | 0.4 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 20 | 0.4 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 18 | 0.4 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 12 | 0.4 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG23 | 17 | 0.4 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 18 | 0.4 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 7 | 0.4 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 15 | 0.4 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 6 | 0.4 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 5 | 0.4 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 10 | 0.4 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 17 | 0.4 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 1 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 17 | 0.4 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 13 | 0.4 |
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 3 | 0.4 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 5 | 0.4 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 16 | 0.4 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG22 | 20 | 0.4 |
| (2,490) | 1:126:A:ILE:HG22 | 1:127:A:ASN:HB3 | 4 | 0.4 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 7 | 0.4 |
| (2,485) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 12 | 0.4 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD12 | 19 | 0.4 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 15 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 2 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG13 | 4 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 5 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG11 | 7 | 0.4 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 9 | 0.4 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 19 | 0.4 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 16 | 0.4 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 13 | 0.4 |
| (2,137) | 1:67:A:VAL:HG21 | 1:68:A:ARG:H | 4 | 0.4 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 4 | 0.4 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 9 | 0.4 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 16 | 0.39 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 1 | 0.39 |
| (2,4842) | 1:71:A:TYR:H | 1:75:A:GLU:HG2 | 16 | 0.39 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 18 | 0.39 |
| (2,4807) | 1:57:A:LEU:H | 1:28:A:PHE:HE2 | 6 | 0.39 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 3 | 0.39 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG13 | 13 | 0.39 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 2 | 0.39 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 9 | 0.39 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 17 | 0.39 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 18 | 0.39 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 19 | 0.39 |
| (2,4714) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 14 | 0.39 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 3 | 0.39 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 12 | 0.39 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 18 | 0.39 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 7 | 0.39 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 18 | 0.39 |
| (2,4683) | 1:137:A:ASN:H | 1:132:A:HIS:HD2 | 20 | 0.39 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 5 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG12 | 3 | 0.39 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 5 | 0.39 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 14 | 0.39 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 12 | 0.39 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 13 | 0.39 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 4 | 0.39 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 15 | 0.39 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 10 | 0.39 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD12 | 1 | 0.39 |
| (2,4492) | 1:130:A:ALA:HA | 1:81:A:LEU:HD11 | 19 | 0.39 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 4 | 0.39 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 8 | 0.39 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 13 | 0.39 |
| (2,4475) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD11 | 11 | 0.39 |
| (2,4454) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 15 | 0.39 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 4 | 0.39 |
| (2,4448) | 1:44:A:GLY:HA3 | 1:43:A:ARG:HG2 | 8 | 0.39 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 4 | 0.39 |
| (2,4447) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HG2 | 6 | 0.39 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 10 | 0.39 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 3 | 0.39 |
| (2,4413) | 1:99:A:ARG:HB2 | 1:99:A:ARG:HG2 | 16 | 0.39 |
| (2,4398) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HD2 | 20 | 0.39 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 17 | 0.39 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD12 | 6 | 0.39 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 8 | 0.39 |
| (2,4240) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 8 | 0.39 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG23 | 7 | 0.39 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG2 | 4 | 0.39 |
| (2,4204) | 1:158:A:LYS:HD3 | 1:137:A:ASN:HD22 | 5 | 0.39 |
| (2,4182) | 1:141:A:LEU:HD12 | 1:143:A:MET:HG2 | 3 | 0.39 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 10 | 0.39 |
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 5 | 0.39 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 1 | 0.39 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 4 | 0.39 |
| (2,4071) | 1:81:A:LEU:HD12 | 1:141:A:LEU:H | 1 | 0.39 |
| (2,4051) | 1:29:A:LEU:HD23 | 1:145:A:LEU:HG | 6 | 0.39 |
| (2,4051) | 1:29:A:LEU:HD22 | 1:145:A:LEU:HG | 16 | 0.39 |
| (2,4037) | 1:122:A:LEU:HD12 | 1:33:A:VAL:HG11 | 5 | 0.39 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 4 | 0.39 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 10 | 0.39 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 16 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3983) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HB3 | 19 | 0.39 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 5 | 0.39 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 7 | 0.39 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 8 | 0.39 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 19 | 0.39 |
| (2,3947) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 6 | 0.39 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 9 | 0.39 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 13 | 0.39 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 14 | 0.39 |
| (2,3850) | 1:82:A:GLU:HG2 | 1:79:A:SER:HB3 | 14 | 0.39 |
| (2,3840) | 1:55:A:THR:HG21 | 1:60:A:PHE:HE2 | 13 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 2 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 3 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 8 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 10 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 13 | 0.39 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 15 | 0.39 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:131:A:GLY:H | 13 | 0.39 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD11 | 6 | 0.39 |
| (2,3775) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG22 | 8 | 0.39 |
| (2,3771) | 1:126:A:ILE:HG22 | 1:125:A:PHE:HD2 | 12 | 0.39 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 20 | 0.39 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 4 | 0.39 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 2 | 0.39 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 11 | 0.39 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 7 | 0.39 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 12 | 0.39 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 13 | 0.39 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 16 | 0.39 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 9 | 0.39 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 18 | 0.39 |
| (2,3450) | 1:130:A:ALA:HB1 | 1:132:A:HIS:H | 16 | 0.39 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 20 | 0.39 |
| (2,3127) | 1:29:A:LEU:H | 1:57:A:LEU:HD12 | 10 | 0.39 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 2 | 0.39 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 5 | 0.39 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 11 | 0.39 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 19 | 0.39 |
| (2,2900) | 1:50:A:GLU:H | 1:68:A:ARG:HG2 | 17 | 0.39 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 11 | 0.39 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 9 | 0.39 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 13 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2579) | 1:99:A:ARG:H | 1:99:A:ARG:HG3 | 1 | 0.39 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 19 | 0.39 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 10 | 0.39 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 8 | 0.39 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 10 | 0.39 |
| (2,2354) | 1:59:A:ILE:HD12 | 1:60:A:PHE:HZ | 11 | 0.39 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 17 | 0.39 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 3 | 0.39 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 9 | 0.39 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 16 | 0.39 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 14 | 0.39 |
| (2,2298) | 1:18:A:LEU:HD21 | 1:17:A:ASN:H | 20 | 0.39 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 9 | 0.39 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 12 | 0.39 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 14 | 0.39 |
| (2,2264) | 1:134:A:LEU:HD12 | 1:133:A:PRO:HA | 15 | 0.39 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 5 | 0.39 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 20 | 0.39 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 12 | 0.39 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD11 | 11 | 0.39 |
| (2,2212) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HZ | 4 | 0.39 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 12 | 0.39 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 11 | 0.39 |
| (2,2095) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 14 | 0.39 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 10 | 0.39 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 15 | 0.39 |
| (2,2068) | 1:92:A:LEU:HD11 | 1:78:A:ARG:HD2 | 1 | 0.39 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 9 | 0.39 |
| (2,2011) | 1:134:A:LEU:HD11 | 1:88:A:VAL:H | 12 | 0.39 |
| (2,1953) | 1:145:A:LEU:HD21 | 1:141:A:LEU:HB3 | 17 | 0.39 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 4 | 0.39 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 11 | 0.39 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD21 | 5 | 0.39 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 8 | 0.39 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 15 | 0.39 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 11 | 0.39 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 9 | 0.39 |
| (2,1670) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 16 | 0.39 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 10 | 0.39 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 11 | 0.39 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 3 | 0.39 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 5 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1583) | 1:141:A:LEU:HD11 | 1:138:A:GLU:H | 8 | 0.39 |
| (2,1489) | 1:29:A:LEU:HD12 | 1:55:A:THR:HA | 10 | 0.39 |
| (2,1445) | 1:133:A:PRO:HA | 1:136:A:GLN:HG3 | 4 | 0.39 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 12 | 0.39 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB3 | 4 | 0.39 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 20 | 0.39 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 11 | 0.39 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 17 | 0.39 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 10 | 0.39 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 20 | 0.39 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 16 | 0.39 |
| (2,1245) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 15 | 0.39 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 15 | 0.39 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 4 | 0.39 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 1 | 0.39 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 6 | 0.39 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 1 | 0.39 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 3 | 0.39 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 5 | 0.39 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 2 | 0.39 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 16 | 0.39 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 1 | 0.39 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 6 | 0.39 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 1 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 1 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 8 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 10 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 13 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 16 | 0.39 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 20 | 0.39 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 14 | 0.39 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 16 | 0.39 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 4 | 0.39 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 14 | 0.39 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG23 | 16 | 0.39 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 15 | 0.39 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 19 | 0.39 |
| (2,680) | 1:55:A:THR:HG22 | 1:63:A:LYS:HB3 | 2 | 0.39 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD11 | 4 | 0.39 |
| (2,566) | 1:150:A:ILE:HG22 | 1:143:A:MET:HG3 | 17 | 0.39 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 17 | 0.39 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 12 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,525) | 1:122:A:LEU:HD12 | 1:122:A:LEU:H | 12 | 0.39 |
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 13 | 0.39 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG21 | 13 | 0.39 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 15 | 0.39 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD13 | 11 | 0.39 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD12 | 17 | 0.39 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 12 | 0.39 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 11 | 0.39 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 10 | 0.39 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 15 | 0.39 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD13 | 4 | 0.39 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 19 | 0.39 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 15 | 0.39 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 12 | 0.39 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 3 | 0.39 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 5 | 0.39 |
| (2,151) | 1:66:A:THR:HG23 | 1:50:A:GLU:H | 14 | 0.39 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 16 | 0.39 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 8 | 0.39 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 16 | 0.39 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 18 | 0.39 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 19 | 0.39 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 7 | 0.38 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 5 | 0.38 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 14 | 0.38 |
| (2,4890) | 1:143:A:MET:H | 1:141:A:LEU:HD12 | 8 | 0.38 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 6 | 0.38 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 16 | 0.38 |
| (2,4852) | 1:97:A:PHE:HB2 | 1:96:A:ALA:H | 14 | 0.38 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 5 | 0.38 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 2 | 0.38 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 10 | 0.38 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG11 | 12 | 0.38 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 16 | 0.38 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 19 | 0.38 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 5 | 0.38 |
| (2,4801) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 6 | 0.38 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 7 | 0.38 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 7 | 0.38 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 16 | 0.38 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD2 | 9 | 0.38 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 13 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 12 | 0.38 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 19 | 0.38 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 11 | 0.38 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG13 | 16 | 0.38 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 4 | 0.38 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 8 | 0.38 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 2 | 0.38 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 15 | 0.38 |
| (2,4550) | 1:34:A:SER:HB2 | 1:52:A:ARG:HD3 | 14 | 0.38 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 20 | 0.38 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 1 | 0.38 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 9 | 0.38 |
| (2,4485) | 1:95:A:LYS:HE3 | 1:95:A:LYS:HG3 | 9 | 0.38 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 5 | 0.38 |
| (2,4475) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD11 | 10 | 0.38 |
| (2,4465) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HG | 14 | 0.38 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 12 | 0.38 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 6 | 0.38 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 19 | 0.38 |
| (2,4347) | 1:38:A:THR:HG22 | 1:110:A:PHE:HZ | 18 | 0.38 |
| (2,4335) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HB3 | 11 | 0.38 |
| (2,4335) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB3 | 14 | 0.38 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 1 | 0.38 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 8 | 0.38 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 16 | 0.38 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 6 | 0.38 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 7 | 0.38 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 14 | 0.38 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 15 | 0.38 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 15 | 0.38 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 6 | 0.38 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 12 | 0.38 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 17 | 0.38 |
| (2,4205) | 1:158:A:LYS:HD3 | 1:159:A:ILE:H | 5 | 0.38 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD11 | 4 | 0.38 |
| (2,4179) | 1:141:A:LEU:HD12 | 1:60:A:PHE:HZ | 17 | 0.38 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 2 | 0.38 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 18 | 0.38 |
| (2,4084) | 1:51:A:ILE:HD13 | 1:34:A:SER:H | 13 | 0.38 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 4 | 0.38 |
| (2,3983) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HB3 | 14 | 0.38 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 1 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 12 | 0.38 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 16 | 0.38 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 17 | 0.38 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 10 | 0.38 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 1 | 0.38 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 16 | 0.38 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 20 | 0.38 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 18 | 0.38 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 1 | 0.38 |
| (2,3818) | 1:128:A:LYS:HE3 | 1:128:A:LYS:H | 13 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:60:A:PHE:HE2 | 2 | 0.38 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:131:A:GLY:H | 6 | 0.38 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD13 | 4 | 0.38 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 5 | 0.38 |
| (2,3764) | 1:53:A:VAL:HG23 | 1:30:A:GLU:HG3 | 3 | 0.38 |
| (2,3763) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 5 | 0.38 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 12 | 0.38 |
| (2,3727) | 1:89:A:VAL:HA | 1:90:A:PRO:HG3 | 3 | 0.38 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 3 | 0.38 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 5 | 0.38 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 16 | 0.38 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 12 | 0.38 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 14 | 0.38 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 6 | 0.38 |
| (2,3631) | 1:82:A:GLU:HA | 1:85:A:SER:HB2 | 17 | 0.38 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 9 | 0.38 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 20 | 0.38 |
| (2,3278) | 1:66:A:THR:HG23 | 1:66:A:THR:H | 10 | 0.38 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 19 | 0.38 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 1 | 0.38 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 15 | 0.38 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD22 | 9 | 0.38 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 15 | 0.38 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 19 | 0.38 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 3 | 0.38 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 1 | 0.38 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 10 | 0.38 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 4 | 0.38 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 2 | 0.38 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 19 | 0.38 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 12 | 0.38 |
| (2,2354) | 1:59:A:ILE:HD12 | 1:60:A:PHE:HZ | 16 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 10 | 0.38 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 14 | 0.38 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 15 | 0.38 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 17 | 0.38 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 11 | 0.38 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 15 | 0.38 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG22 | 7 | 0.38 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 6 | 0.38 |
| (2,2264) | 1:134:A:LEU:HD12 | 1:133:A:PRO:HA | 7 | 0.38 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 18 | 0.38 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 2 | 0.38 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 10 | 0.38 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 7 | 0.38 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 13 | 0.38 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 17 | 0.38 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 19 | 0.38 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 20 | 0.38 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD13 | 11 | 0.38 |
| (2,2094) | 1:98:A:LEU:HD22 | 1:97:A:PHE:HZ | 5 | 0.38 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 15 | 0.38 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 20 | 0.38 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 7 | 0.38 |
| (2,2017) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HB2 | 15 | 0.38 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 14 | 0.38 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 13 | 0.38 |
| (2,1671) | 1:31:A:ILE:HG21 | 1:127:A:ASN:HD21 | 8 | 0.38 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 11 | 0.38 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 4 | 0.38 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 15 | 0.38 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 4 | 0.38 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 14 | 0.38 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 14 | 0.38 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 5 | 0.38 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 1 | 0.38 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 5 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 8 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 14 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 17 | 0.38 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 19 | 0.38 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 9 | 0.38 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 14 | 0.38 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 12 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 5 | 0.38 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG23 | 10 | 0.38 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 19 | 0.38 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 2 | 0.38 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB2 | 7 | 0.38 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 2 | 0.38 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 19 | 0.38 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 20 | 0.38 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 2 | 0.38 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 7 | 0.38 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD12 | 14 | 0.38 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 6 | 0.38 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD11 | 17 | 0.38 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 10 | 0.38 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 3 | 0.38 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 20 | 0.38 |
| (2,950) | 1:100:A:GLN:HA | 1:100:A:GLN:HB3 | 7 | 0.38 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 18 | 0.38 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 20 | 0.38 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 3 | 0.38 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 20 | 0.38 |
| (2,755) | 1:122:A:LEU:HD23 | 1:122:A:LEU:HA | 3 | 0.38 |
| (2,748) | 1:122:A:LEU:HD21 | 1:122:A:LEU:H | 10 | 0.38 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 18 | 0.38 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 16 | 0.38 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 11 | 0.38 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 19 | 0.38 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 13 | 0.38 |
| (2,541) | 1:143:A:MET:HE3 | 1:144:A:PHE:HD1 | 20 | 0.38 |
| (2,526) | 1:122:A:LEU:HD11 | 1:75:A:GLU:H | 10 | 0.38 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG21 | 8 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG21 | 9 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG23 | 17 | 0.38 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG22 | 18 | 0.38 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD12 | 13 | 0.38 |
| (2,490) | 1:126:A:ILE:HG21 | 1:127:A:ASN:HB3 | 16 | 0.38 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG21 | 11 | 0.38 |
| (2,465) | 1:47:A:THR:HG23 | 1:114:A:PHE:HE2 | 10 | 0.38 |
| (2,379) | 1:89:A:VAL:HB | 1:87:A:VAL:HG12 | 3 | 0.38 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 4 | 0.38 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 1 | 0.38 |
| (2,355) | 1:89:A:VAL:HG12 | 1:129:A:VAL:H | 3 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 6 | 0.38 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 8 | 0.38 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 13 | 0.38 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 15 | 0.38 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 16 | 0.38 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 6 | 0.38 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 17 | 0.38 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 6 | 0.37 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 8 | 0.37 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 14 | 0.37 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 11 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 8 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 9 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 11 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 12 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 14 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG2 | 1:100:A:GLN:HE22 | 15 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 18 | 0.37 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 20 | 0.37 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 20 | 0.37 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HA | 7 | 0.37 |
| (2,4925) | 1:137:A:ASN:HD22 | 1:134:A:LEU:HA | 11 | 0.37 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 1 | 0.37 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 4 | 0.37 |
| (2,4835) | 1:65:A:SER:H | 1:62:A:LEU:HB2 | 18 | 0.37 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 11 | 0.37 |
| (2,4801) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 3 | 0.37 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 13 | 0.37 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 14 | 0.37 |
| (2,4775) | 1:11:A:LEU:H | 1:10:A:ARG:HG2 | 4 | 0.37 |
| (2,4775) | 1:11:A:LEU:HB2 | 1:11:A:LEU:H | 13 | 0.37 |
| (2,4763) | 1:6:A:ALA:H | 1:5:A:VAL:HG13 | 3 | 0.37 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD2 | 10 | 0.37 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 13 | 0.37 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 15 | 0.37 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 9 | 0.37 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 5 | 0.37 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 7 | 0.37 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 1 | 0.37 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 14 | 0.37 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 14 | 0.37 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG22 | 9 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 14 | 0.37 |
| (2,4536) | 1:92:A:LEU:HD13 | 1:125:A:PHE:HE1 | 14 | 0.37 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 19 | 0.37 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 5 | 0.37 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 17 | 0.37 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 16 | 0.37 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 3 | 0.37 |
| (2,4423) | 1:33:A:VAL:HG23 | 1:122:A:LEU:HG | 16 | 0.37 |
| (2,4414) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 6 | 0.37 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 12 | 0.37 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG2 | 5 | 0.37 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 7 | 0.37 |
| (2,4358) | 1:157:A:SER:HA | 1:158:A:LYS:HD2 | 5 | 0.37 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD23 | 11 | 0.37 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG21 | 12 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 1 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 2 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 3 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 4 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 5 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 7 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 8 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 10 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 11 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 16 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 19 | 0.37 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 20 | 0.37 |
| (2,4209) | 1:61:A:LYS:HE2 | 1:62:A:LEU:HD12 | 10 | 0.37 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 12 | 0.37 |
| (2,4190) | 1:77:A:LEU:HD21 | 1:80:A:GLU:HB2 | 15 | 0.37 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 2 | 0.37 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 4 | 0.37 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 20 | 0.37 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 19 | 0.37 |
| (2,4123) | 1:37:A:GLN:HG3 | 1:39:A:VAL:HG21 | 9 | 0.37 |
| (2,4122) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HE1 | 5 | 0.37 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 9 | 0.37 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 7 | 0.37 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG21 | 17 | 0.37 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 2 | 0.37 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB3 | 17 | 0.37 |
| (2,3963) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 3 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3958) | 1:109:A:ILE:HD12 | 1:108:A:GLY:H | 15 | 0.37 |
| (2,3956) | 1:108:A:GLY:HA3 | 1:109:A:ILE:HG23 | 6 | 0.37 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 2 | 0.37 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 6 | 0.37 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 18 | 0.37 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 20 | 0.37 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 5 | 0.37 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 6 | 0.37 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 19 | 0.37 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG22 | 4 | 0.37 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:60:A:PHE:HE2 | 11 | 0.37 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 14 | 0.37 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG23 | 10 | 0.37 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:84:A:GLU:HB2 | 17 | 0.37 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 8 | 0.37 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 7 | 0.37 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:78:A:ARG:HB2 | 7 | 0.37 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 11 | 0.37 |
| (2,3690) | 1:150:A:ILE:HD11 | 1:143:A:MET:HG3 | 3 | 0.37 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD12 | 11 | 0.37 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 4 | 0.37 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 11 | 0.37 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 1 | 0.37 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 8 | 0.37 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 7 | 0.37 |
| (2,3620) | 1:42:A:GLY:HA3 | 1:43:A:ARG:HA | 15 | 0.37 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 14 | 0.37 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 15 | 0.37 |
| (2,3045) | 1:14:A:LYS:H | 1:14:A:LYS:HG3 | 13 | 0.37 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 20 | 0.37 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD22 | 3 | 0.37 |
| (2,2935) | 1:114:A:PHE:H | 1:114:A:PHE:HE2 | 8 | 0.37 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 2 | 0.37 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 10 | 0.37 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 17 | 0.37 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 18 | 0.37 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 15 | 0.37 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 11 | 0.37 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 11 | 0.37 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 4 | 0.37 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 7 | 0.37 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 12 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 3 | 0.37 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 9 | 0.37 |
| (2,2408) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HG2 | 3 | 0.37 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 3 | 0.37 |
| (2,2367) | 1:143:A:MET:HA | 1:142:A:HIS:HB2 | 14 | 0.37 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 2 | 0.37 |
| (2,2346) | 1:88:A:VAL:HG11 | 1:90:A:PRO:HD2 | 5 | 0.37 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 6 | 0.37 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 11 | 0.37 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 19 | 0.37 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 9 | 0.37 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 2 | 0.37 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 1 | 0.37 |
| (2,2270) | 1:145:A:LEU:HD11 | 1:144:A:PHE:HD2 | 10 | 0.37 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 8 | 0.37 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 20 | 0.37 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 4 | 0.37 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 5 | 0.37 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 9 | 0.37 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 10 | 0.37 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 13 | 0.37 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 14 | 0.37 |
| (2,2212) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HZ | 5 | 0.37 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD2 | 9 | 0.37 |
| (2,2197) | 1:126:A:ILE:HD13 | 1:77:A:LEU:HD12 | 1 | 0.37 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 20 | 0.37 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 20 | 0.37 |
| (2,1972) | 1:157:A:SER:HB3 | 1:158:A:LYS:HG2 | 5 | 0.37 |
| (2,1972) | 1:157:A:SER:HB3 | 1:158:A:LYS:HG2 | 9 | 0.37 |
| (2,1951) | 1:38:A:THR:HG22 | 1:110:A:PHE:HE2 | 9 | 0.37 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 2 | 0.37 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 9 | 0.37 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 6 | 0.37 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 7 | 0.37 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 9 | 0.37 |
| (2,1613) | 1:50:A:GLU:HG2 | 1:68:A:ARG:HG3 | 3 | 0.37 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 8 | 0.37 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 9 | 0.37 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 2 | 0.37 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 6 | 0.37 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 12 | 0.37 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 17 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 18 | 0.37 |
| (2,1489) | 1:29:A:LEU:HD12 | 1:55:A:THR:HA | 15 | 0.37 |
| (2,1380) | 1:135:A:ALA:HB3 | 1:141:A:LEU:HD21 | 14 | 0.37 |
| (2,1376) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HZ | 16 | 0.37 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 20 | 0.37 |
| (2,1370) | 1:21:A:ALA:HB2 | 1:20:A:ASP:H | 19 | 0.37 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 6 | 0.37 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 18 | 0.37 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 1 | 0.37 |
| (2,1310) | 1:149:A:ILE:HG21 | 1:148:A:GLU:H | 12 | 0.37 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 4 | 0.37 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 10 | 0.37 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 12 | 0.37 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 12 | 0.37 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD12 | 14 | 0.37 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 3 | 0.37 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 8 | 0.37 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 17 | 0.37 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 18 | 0.37 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 5 | 0.37 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 19 | 0.37 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 3 | 0.37 |
| (2,917) | 1:109:A:ILE:HG21 | 1:110:A:PHE:H | 9 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 1 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 6 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 9 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 10 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 13 | 0.37 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 15 | 0.37 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 4 | 0.37 |
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 10 | 0.37 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 13 | 0.37 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 19 | 0.37 |
| (2,748) | 1:122:A:LEU:HD23 | 1:122:A:LEU:H | 3 | 0.37 |
| (2,598) | 1:129:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 0.37 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 10 | 0.37 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 18 | 0.37 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 4 | 0.37 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 1 | 0.37 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 4 | 0.37 |
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 7 | 0.37 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG22 | 5 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG22 | 12 | 0.37 |
| (2,508) | 1:39:A:VAL:HG13 | 1:39:A:VAL:HG22 | 19 | 0.37 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD13 | 2 | 0.37 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 1 | 0.37 |
| (2,428) | 1:13:A:THR:HG22 | 1:12:A:ILE:H | 9 | 0.37 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 2 | 0.37 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 9 | 0.37 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 19 | 0.37 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 10 | 0.37 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 14 | 0.37 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 3 | 0.37 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 16 | 0.37 |
| (2,243) | 1:150:A:ILE:HD12 | 1:150:A:ILE:H | 20 | 0.37 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 5 | 0.37 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 2 | 0.37 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 7 | 0.37 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 12 | 0.37 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 14 | 0.37 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 10 | 0.37 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 19 | 0.37 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 7 | 0.36 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 11 | 0.36 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 20 | 0.36 |
| (2,4973) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HD21 | 10 | 0.36 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 1 | 0.36 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 16 | 0.36 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 19 | 0.36 |
| (2,4945) | 1:77:A:LEU:HD21 | 1:142:A:HIS:H | 8 | 0.36 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 5 | 0.36 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 12 | 0.36 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 19 | 0.36 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 2 | 0.36 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 19 | 0.36 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 17 | 0.36 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 12 | 0.36 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 14 | 0.36 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 20 | 0.36 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 10 | 0.36 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 3 | 0.36 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 15 | 0.36 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 17 | 0.36 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 3 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 20 | 0.36 |
| (2,4623) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 1 | 0.36 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 15 | 0.36 |
| (2,4616) | 1:85:A:SER:H | 1:82:A:GLU:HB2 | 6 | 0.36 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG22 | 8 | 0.36 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 9 | 0.36 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 18 | 0.36 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 2 | 0.36 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 15 | 0.36 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 16 | 0.36 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 5 | 0.36 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 6 | 0.36 |
| (2,4516) | 1:72:A:SER:HB2 | 1:75:A:GLU:H | 16 | 0.36 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 2 | 0.36 |
| (2,4485) | 1:95:A:LYS:HE3 | 1:95:A:LYS:HG3 | 6 | 0.36 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 9 | 0.36 |
| (2,4480) | 1:92:A:LEU:HD13 | 1:76:A:TRP:H | 17 | 0.36 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB2 | 17 | 0.36 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 14 | 0.36 |
| (2,4437) | 1:31:A:ILE:HG21 | 1:53:A:VAL:HG11 | 17 | 0.36 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 1 | 0.36 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG3 | 15 | 0.36 |
| (2,4398) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HD2 | 16 | 0.36 |
| (2,4378) | 1:58:A:PRO:HA | 1:60:A:PHE:H | 9 | 0.36 |
| (2,4335) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB3 | 7 | 0.36 |
| (2,4335) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB3 | 18 | 0.36 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 12 | 0.36 |
| (2,4327) | 1:33:A:VAL:HG21 | 1:122:A:LEU:H | 19 | 0.36 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 12 | 0.36 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 6 | 0.36 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 10 | 0.36 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB3 | 4 | 0.36 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 10 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 6 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 9 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 12 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 13 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 14 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 15 | 0.36 |
| (2,4223) | 1:24:A:PRO:HG3 | 1:24:A:PRO:HD3 | 18 | 0.36 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 9 | 0.36 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 10 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD13 | 14 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 7 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 11 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 12 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 13 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 14 | 0.36 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 18 | 0.36 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 1 | 0.36 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 13 | 0.36 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 15 | 0.36 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 17 | 0.36 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 20 | 0.36 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE2 | 10 | 0.36 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 11 | 0.36 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 18 | 0.36 |
| (2,4094) | 1:115:A:ILE:HG21 | 1:119:A:LYS:H | 15 | 0.36 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 4 | 0.36 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 2 | 0.36 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD23 | 3 | 0.36 |
| (2,4022) | 1:18:A:LEU:HD21 | 1:18:A:LEU:HG | 7 | 0.36 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 13 | 0.36 |
| (2,4022) | 1:18:A:LEU:HD23 | 1:18:A:LEU:HG | 14 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 5 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 6 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD13 | 1:18:A:LEU:HG | 8 | 0.36 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD11 | 10 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 12 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 14 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD13 | 1:18:A:LEU:HG | 15 | 0.36 |
| (2,4021) | 1:18:A:LEU:HD13 | 1:18:A:LEU:HG | 16 | 0.36 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD13 | 17 | 0.36 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD11 | 20 | 0.36 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 12 | 0.36 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 19 | 0.36 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 11 | 0.36 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 12 | 0.36 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 13 | 0.36 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 20 | 0.36 |
| (2,3849) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG21 | 4 | 0.36 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 5 | 0.36 |
| (2,3844) | 1:159:A:ILE:HG21 | 1:139:A:ARG:HA | 2 | 0.36 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 1 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 7 | 0.36 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE2 | 9 | 0.36 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 17 | 0.36 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD11 | 1 | 0.36 |
| (2,3793) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD12 | 17 | 0.36 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 6 | 0.36 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 6 | 0.36 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 11 | 0.36 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 4 | 0.36 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 6 | 0.36 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 10 | 0.36 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 12 | 0.36 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 3 | 0.36 |
| (2,3691) | 1:150:A:ILE:HD11 | 1:143:A:MET:HB2 | 12 | 0.36 |
| (2,3691) | 1:150:A:ILE:HD12 | 1:143:A:MET:HB2 | 15 | 0.36 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 4 | 0.36 |
| (2,3676) | 1:11:A:LEU:HA | 1:12:A:ILE:H | 13 | 0.36 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 14 | 0.36 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 2 | 0.36 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 1 | 0.36 |
| (2,3658) | 1:66:A:THR:HG21 | 1:52:A:ARG:HD2 | 20 | 0.36 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 2 | 0.36 |
| (2,3615) | 1:32:A:ASP:HB3 | 1:33:A:VAL:HB | 11 | 0.36 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 4 | 0.36 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 4 | 0.36 |
| (2,3289) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 8 | 0.36 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 10 | 0.36 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 12 | 0.36 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 5 | 0.36 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 13 | 0.36 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 11 | 0.36 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 8 | 0.36 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 8 | 0.36 |
| (2,2913) | 1:115:A:ILE:HD12 | 1:37:A:GLN:H | 12 | 0.36 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 9 | 0.36 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 16 | 0.36 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG22 | 2 | 0.36 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 9 | 0.36 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 17 | 0.36 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 6 | 0.36 |
| (2,2354) | 1:59:A:ILE:HD12 | 1:60:A:PHE:HZ | 1 | 0.36 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 15 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2354) | 1:59:A:ILE:HD12 | 1:60:A:PHE:HZ | 18 | 0.36 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 19 | 0.36 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 12 | 0.36 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 13 | 0.36 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 13 | 0.36 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD13 | 15 | 0.36 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG23 | 12 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 3 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 7 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG23 | 11 | 0.36 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 18 | 0.36 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 6 | 0.36 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 12 | 0.36 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 2 | 0.36 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 11 | 0.36 |
| (2,2017) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HB2 | 18 | 0.36 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 8 | 0.36 |
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 15 | 0.36 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 5 | 0.36 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 2 | 0.36 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 11 | 0.36 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 16 | 0.36 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 6 | 0.36 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 18 | 0.36 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG22 | 15 | 0.36 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 12 | 0.36 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 7 | 0.36 |
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 10 | 0.36 |
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 19 | 0.36 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD13 | 19 | 0.36 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 7 | 0.36 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 14 | 0.36 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 4 | 0.36 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 11 | 0.36 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 4 | 0.36 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 9 | 0.36 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 20 | 0.36 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 10 | 0.36 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 8 | 0.36 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 8 | 0.36 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 16 | 0.36 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 9 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 12 | 0.36 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG22 | 3 | 0.36 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 1 | 0.36 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 2 | 0.36 |
| (2,1116) | 1:149:A:ILE:HD11 | 1:148:A:GLU:HA | 7 | 0.36 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 10 | 0.36 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 15 | 0.36 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 20 | 0.36 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD12 | 4 | 0.36 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD13 | 18 | 0.36 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 20 | 0.36 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 5 | 0.36 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 15 | 0.36 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 11 | 0.36 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 9 | 0.36 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 1 | 0.36 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 17 | 0.36 |
| (2,917) | 1:109:A:ILE:HG22 | 1:110:A:PHE:H | 12 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 2 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 11 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 17 | 0.36 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 19 | 0.36 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 20 | 0.36 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 3 | 0.36 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 11 | 0.36 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 12 | 0.36 |
| (2,763) | 1:36:A:PRO:HG3 | 1:115:A:ILE:HD12 | 20 | 0.36 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 14 | 0.36 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 8 | 0.36 |
| (2,618) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HG12 | 18 | 0.36 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 3 | 0.36 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 8 | 0.36 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 9 | 0.36 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 9 | 0.36 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG23 | 14 | 0.36 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 4 | 0.36 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 12 | 0.36 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 3 | 0.36 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG22 | 1 | 0.36 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 2 | 0.36 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 5 | 0.36 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 11 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,355) | 1:89:A:VAL:HG12 | 1:129:A:VAL:H | 20 | 0.36 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 2 | 0.36 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 5 | 0.36 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG21 | 19 | 0.36 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 5 | 0.36 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 13 | 0.36 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 17 | 0.36 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 8 | 0.36 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 1 | 0.35 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 9 | 0.35 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 17 | 0.35 |
| (2,4954) | 1:100:A:GLN:HG3 | 1:100:A:GLN:HE22 | 10 | 0.35 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG22 | 11 | 0.35 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG23 | 15 | 0.35 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 1 | 0.35 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 18 | 0.35 |
| (2,4801) | 1:31:A:ILE:HG22 | 1:31:A:ILE:H | 10 | 0.35 |
| (2,4801) | 1:31:A:ILE:HG21 | 1:31:A:ILE:H | 15 | 0.35 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 20 | 0.35 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 1 | 0.35 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG3 | 3 | 0.35 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 15 | 0.35 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 6 | 0.35 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG23 | 11 | 0.35 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 7 | 0.35 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 1 | 0.35 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 7 | 0.35 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 3 | 0.35 |
| (2,4696) | 1:45:A:ARG:H | 1:46:A:PHE:HD1 | 3 | 0.35 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 3 | 0.35 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 14 | 0.35 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 10 | 0.35 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 9 | 0.35 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 8 | 0.35 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 17 | 0.35 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 12 | 0.35 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 13 | 0.35 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 19 | 0.35 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 3 | 0.35 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 6 | 0.35 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 5 | 0.35 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 1 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 6 | 0.35 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 18 | 0.35 |
| (2,4541) | 1:146:A:GLN:HG3 | 1:143:A:MET:HA | 8 | 0.35 |
| (2,4541) | 1:146:A:GLN:HG3 | 1:143:A:MET:HA | 10 | 0.35 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 5 | 0.35 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HB2 | 12 | 0.35 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 14 | 0.35 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 17 | 0.35 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 9 | 0.35 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 15 | 0.35 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG23 | 12 | 0.35 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG22 | 16 | 0.35 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 1 | 0.35 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 12 | 0.35 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 10 | 0.35 |
| (2,4398) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HD2 | 9 | 0.35 |
| (2,4396) | 1:61:A:LYS:HD3 | 1:61:A:LYS:HA | 1 | 0.35 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 12 | 0.35 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 18 | 0.35 |
| (2,4375) | 1:43:A:ARG:HB3 | 1:43:A:ARG:HD3 | 15 | 0.35 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 9 | 0.35 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 15 | 0.35 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 18 | 0.35 |
| (2,4350) | 1:130:A:ALA:HB2 | 1:145:A:LEU:HD22 | 6 | 0.35 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 10 | 0.35 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD13 | 5 | 0.35 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 2 | 0.35 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 5 | 0.35 |
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 9 | 0.35 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 8 | 0.35 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 14 | 0.35 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 15 | 0.35 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 17 | 0.35 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG2 | 16 | 0.35 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 11 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD13 | 3 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD12 | 9 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD12 | 11 | 0.35 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD13 | 15 | 0.35 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD13 | 14 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 1 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 5 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 6 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 8 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HA | 15 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 16 | 0.35 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 17 | 0.35 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE1 | 2 | 0.35 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE1 | 6 | 0.35 |
| (2,4122) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HE1 | 14 | 0.35 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 6 | 0.35 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 17 | 0.35 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 1 | 0.35 |
| (2,4042) | 1:45:A:ARG:HD2 | 1:41:A:VAL:HA | 5 | 0.35 |
| (2,4030) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HD1 | 17 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 4 | 0.35 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 11 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 15 | 0.35 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD22 | 16 | 0.35 |
| (2,4022) | 1:18:A:LEU:HD22 | 1:18:A:LEU:HG | 17 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 18 | 0.35 |
| (2,4022) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 20 | 0.35 |
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 1 | 0.35 |
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 7 | 0.35 |
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 9 | 0.35 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD11 | 11 | 0.35 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 18 | 0.35 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD13 | 19 | 0.35 |
| (2,3984) | 1:104:A:ARG:HD3 | 1:104:A:ARG:HA | 20 | 0.35 |
| (2,3955) | 1:110:A:PHE:HB3 | 1:110:A:PHE:HE2 | 4 | 0.35 |
| (2,3942) | 1:115:A:ILE:HG21 | 1:119:A:LYS:HE2 | 2 | 0.35 |
| (2,3929) | 1:117:A:GLU:HA | 1:116:A:GLU:HA | 14 | 0.35 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 1 | 0.35 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 8 | 0.35 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 17 | 0.35 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 12 | 0.35 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 3 | 0.35 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 10 | 0.35 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 18 | 0.35 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 12 | 0.35 |
| (2,3849) | 1:55:A:THR:HG21 | 1:29:A:LEU:HD13 | 20 | 0.35 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 9 | 0.35 |
| (2,3847) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HB2 | 10 | 0.35 |
| (2,3821) | 1:128:A:LYS:HD2 | 1:128:A:LYS:HE3 | 12 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 15 | 0.35 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:60:A:PHE:HE2 | 7 | 0.35 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD11 | 18 | 0.35 |
| (2,3783) | 1:143:A:MET:HE3 | 1:143:A:MET:HB3 | 15 | 0.35 |
| (2,3763) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 9 | 0.35 |
| (2,3755) | 1:48:A:THR:HG21 | 1:46:A:PHE:HB2 | 18 | 0.35 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 20 | 0.35 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 2 | 0.35 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 17 | 0.35 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 6 | 0.35 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 1 | 0.35 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:78:A:ARG:HB2 | 6 | 0.35 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 9 | 0.35 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 8 | 0.35 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 7 | 0.35 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 2 | 0.35 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 6 | 0.35 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 8 | 0.35 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 18 | 0.35 |
| (2,3631) | 1:82:A:GLU:HA | 1:81:A:LEU:HA | 19 | 0.35 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 10 | 0.35 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 11 | 0.35 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG22 | 20 | 0.35 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 12 | 0.35 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 10 | 0.35 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 14 | 0.35 |
| (2,3278) | 1:66:A:THR:HG22 | 1:66:A:THR:H | 2 | 0.35 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 8 | 0.35 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 3 | 0.35 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 6 | 0.35 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 8 | 0.35 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 20 | 0.35 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 13 | 0.35 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 3 | 0.35 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD13 | 18 | 0.35 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 2 | 0.35 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB3 | 12 | 0.35 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 2 | 0.35 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 11 | 0.35 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 13 | 0.35 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 16 | 0.35 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 18 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 3 | 0.35 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 13 | 0.35 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 16 | 0.35 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 20 | 0.35 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 5 | 0.35 |
| (2,2354) | 1:59:A:ILE:HD13 | 1:60:A:PHE:HZ | 2 | 0.35 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 5 | 0.35 |
| (2,2354) | 1:59:A:ILE:HD13 | 1:60:A:PHE:HZ | 13 | 0.35 |
| (2,2338) | 1:29:A:LEU:HD21 | 1:130:A:ALA:H | 4 | 0.35 |
| (2,2312) | 1:77:A:LEU:HD22 | 1:144:A:PHE:HZ | 3 | 0.35 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 8 | 0.35 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 13 | 0.35 |
| (2,2264) | 1:134:A:LEU:HD11 | 1:133:A:PRO:HA | 13 | 0.35 |
| (2,2258) | 1:130:A:ALA:HB3 | 1:136:A:GLN:HE22 | 14 | 0.35 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 14 | 0.35 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 9 | 0.35 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 16 | 0.35 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 13 | 0.35 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 4 | 0.35 |
| (2,2204) | 1:65:A:SER:HB3 | 1:62:A:LEU:HG | 6 | 0.35 |
| (2,2197) | 1:126:A:ILE:HD12 | 1:77:A:LEU:HD11 | 19 | 0.35 |
| (2,2142) | 1:31:A:ILE:HG23 | 1:33:A:VAL:HG13 | 20 | 0.35 |
| (2,2017) | 1:134:A:LEU:HD11 | 1:137:A:ASN:HB2 | 1 | 0.35 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG21 | 4 | 0.35 |
| (2,1843) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HD3 | 19 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 1 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 4 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 5 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 8 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 9 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 10 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 12 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 14 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 15 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 18 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 19 | 0.35 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG23 | 20 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 6 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 7 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 9 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 13 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 14 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 17 | 0.35 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 20 | 0.35 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 10 | 0.35 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 14 | 0.35 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 19 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 2 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 3 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 4 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 5 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 7 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 9 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 10 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 11 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 12 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 14 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 15 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 16 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 17 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 18 | 0.35 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 20 | 0.35 |
| (2,1671) | 1:31:A:ILE:HG23 | 1:127:A:ASN:HD21 | 16 | 0.35 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 5 | 0.35 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG21 | 2 | 0.35 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 17 | 0.35 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 18 | 0.35 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD11 | 1 | 0.35 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 15 | 0.35 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 13 | 0.35 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 2 | 0.35 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 20 | 0.35 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 1 | 0.35 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 20 | 0.35 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 3 | 0.35 |
| (2,1376) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HZ | 1 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 1 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 2 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 6 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 11 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 12 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB3 | 15 | 0.35 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 16 | 0.35 |
| (2,1362) | 1:135:A:ALA:HB3 | 1:132:A:HIS:HB2 | 11 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 20 | 0.35 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 6 | 0.35 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 17 | 0.35 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 2 | 0.35 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 5 | 0.35 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 11 | 0.35 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 17 | 0.35 |
| (2,1336) | 1:59:A:ILE:HG21 | 1:61:A:LYS:H | 19 | 0.35 |
| (2,1335) | 1:59:A:ILE:HG21 | 1:57:A:LEU:H | 17 | 0.35 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 6 | 0.35 |
| (2,1310) | 1:149:A:ILE:HG21 | 1:148:A:GLU:H | 15 | 0.35 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 8 | 0.35 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 12 | 0.35 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 16 | 0.35 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 1 | 0.35 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 10 | 0.35 |
| (2,1258) | 1:152:A:LYS:HG3 | 1:150:A:ILE:HG23 | 11 | 0.35 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 14 | 0.35 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 18 | 0.35 |
| (2,1147) | 1:122:A:LEU:HD13 | 1:93:A:PRO:HB3 | 3 | 0.35 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 5 | 0.35 |
| (2,1116) | 1:149:A:ILE:HD13 | 1:148:A:GLU:HA | 15 | 0.35 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 10 | 0.35 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 19 | 0.35 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 13 | 0.35 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 2 | 0.35 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 11 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 2 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 7 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 12 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 14 | 0.35 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 20 | 0.35 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG23 | 4 | 0.35 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG23 | 14 | 0.35 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 5 | 0.35 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 11 | 0.35 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 20 | 0.35 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 3 | 0.35 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 7 | 0.35 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 10 | 0.35 |
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 1 | 0.35 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 2 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 4 | 0.35 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 7 | 0.35 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 9 | 0.35 |
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 17 | 0.35 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 3 | 0.35 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 11 | 0.35 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 16 | 0.35 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 7 | 0.35 |
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 8 | 0.35 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 17 | 0.35 |
| (2,508) | 1:39:A:VAL:HG11 | 1:39:A:VAL:HG22 | 3 | 0.35 |
| (2,508) | 1:39:A:VAL:HG12 | 1:39:A:VAL:HG22 | 6 | 0.35 |
| (2,495) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HD13 | 6 | 0.35 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 17 | 0.35 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 18 | 0.35 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 20 | 0.35 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 6 | 0.35 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 7 | 0.35 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 9 | 0.35 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 4 | 0.35 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 15 | 0.35 |
| (2,16) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB2 | 14 | 0.35 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG21 | 17 | 0.34 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 2 | 0.34 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 17 | 0.34 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 7 | 0.34 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 20 | 0.34 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 16 | 0.34 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 7 | 0.34 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 19 | 0.34 |
| (2,4801) | 1:31:A:ILE:HG23 | 1:31:A:ILE:H | 16 | 0.34 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:58:A:PRO:HG3 | 2 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 5 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 9 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 11 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 12 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 13 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 14 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 16 | 0.34 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 17 | 0.34 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD3 | 19 | 0.34 |
| (2,4772) | 1:10:A:ARG:H | 1:9:A:ARG:HD3 | 3 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 4 | 0.34 |
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 9 | 0.34 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 1 | 0.34 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 11 | 0.34 |
| (2,4727) | 1:33:A:VAL:HG23 | 1:50:A:GLU:H | 18 | 0.34 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 3 | 0.34 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 19 | 0.34 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 8 | 0.34 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 2 | 0.34 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 14 | 0.34 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 16 | 0.34 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 13 | 0.34 |
| (2,4583) | 1:109:A:ILE:HG13 | 1:108:A:GLY:HA2 | 9 | 0.34 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 10 | 0.34 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 4 | 0.34 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 8 | 0.34 |
| (2,4534) | 1:149:A:ILE:HG23 | 1:150:A:ILE:HG13 | 3 | 0.34 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HB2 | 7 | 0.34 |
| (2,4533) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HB2 | 11 | 0.34 |
| (2,4485) | 1:95:A:LYS:HE3 | 1:95:A:LYS:HG3 | 17 | 0.34 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 10 | 0.34 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 19 | 0.34 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 2 | 0.34 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 19 | 0.34 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 12 | 0.34 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 10 | 0.34 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 8 | 0.34 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 11 | 0.34 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 12 | 0.34 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 13 | 0.34 |
| (2,4401) | 1:9:A:ARG:HD3 | 1:9:A:ARG:HG2 | 18 | 0.34 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 14 | 0.34 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 4 | 0.34 |
| (2,4335) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB3 | 3 | 0.34 |
| (2,4303) | 1:97:A:PHE:HA | 1:96:A:ALA:HA | 14 | 0.34 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 4 | 0.34 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 11 | 0.34 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 2 | 0.34 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 14 | 0.34 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 1 | 0.34 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 7 | 0.34 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 11 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 13 | 0.34 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 10 | 0.34 |
| (2,4177) | 1:55:A:THR:HG21 | 1:63:A:LYS:HD2 | 5 | 0.34 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 9 | 0.34 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 10 | 0.34 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 2 | 0.34 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 7 | 0.34 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 6 | 0.34 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 14 | 0.34 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 15 | 0.34 |
| (2,4094) | 1:115:A:ILE:HG21 | 1:119:A:LYS:H | 6 | 0.34 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 10 | 0.34 |
| (2,4038) | 1:45:A:ARG:HB2 | 1:38:A:THR:HG23 | 19 | 0.34 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD23 | 8 | 0.34 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 12 | 0.34 |
| (2,4021) | 1:18:A:LEU:HD11 | 1:18:A:LEU:HG | 2 | 0.34 |
| (2,4021) | 1:18:A:LEU:HD13 | 1:18:A:LEU:HG | 4 | 0.34 |
| (2,4021) | 1:18:A:LEU:HD12 | 1:18:A:LEU:HG | 13 | 0.34 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 1 | 0.34 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 9 | 0.34 |
| (2,3959) | 1:109:A:ILE:HD11 | 1:110:A:PHE:HE1 | 15 | 0.34 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 13 | 0.34 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 2 | 0.34 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 15 | 0.34 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD12 | 6 | 0.34 |
| (2,3844) | 1:159:A:ILE:HG23 | 1:139:A:ARG:HA | 19 | 0.34 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 2 | 0.34 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 9 | 0.34 |
| (2,3795) | 1:130:A:ALA:HB2 | 1:131:A:GLY:H | 8 | 0.34 |
| (2,3763) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 12 | 0.34 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:82:A:GLU:HG3 | 8 | 0.34 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:82:A:GLU:HG3 | 13 | 0.34 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 14 | 0.34 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 16 | 0.34 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 8 | 0.34 |
| (2,3707) | 1:92:A:LEU:HD23 | 1:78:A:ARG:H | 14 | 0.34 |
| (2,3707) | 1:92:A:LEU:HD23 | 1:78:A:ARG:H | 19 | 0.34 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 19 | 0.34 |
| (2,3702) | 1:92:A:LEU:HD21 | 1:75:A:GLU:HG2 | 15 | 0.34 |
| (2,3691) | 1:150:A:ILE:HD12 | 1:143:A:MET:HB2 | 10 | 0.34 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 15 | 0.34 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 15 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 20 | 0.34 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 11 | 0.34 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 6 | 0.34 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 13 | 0.34 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 18 | 0.34 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 13 | 0.34 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 3 | 0.34 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 15 | 0.34 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 4 | 0.34 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 12 | 0.34 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 3 | 0.34 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 18 | 0.34 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 12 | 0.34 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 15 | 0.34 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 16 | 0.34 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 18 | 0.34 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 9 | 0.34 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 1 | 0.34 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 17 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 11 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE2 | 12 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 14 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 15 | 0.34 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 19 | 0.34 |
| (2,2713) | 1:34:A:SER:HB2 | 1:35:A:ASN:HD22 | 14 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 1 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 3 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 5 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 6 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 7 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 8 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 10 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 12 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 15 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 17 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 18 | 0.34 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 20 | 0.34 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 8 | 0.34 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 14 | 0.34 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 15 | 0.34 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 14 | 0.34 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 18 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 20 | 0.34 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 14 | 0.34 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 1 | 0.34 |
| (2,2370) | 1:145:A:LEU:HD21 | 1:136:A:GLN:HE22 | 11 | 0.34 |
| (2,2346) | 1:88:A:VAL:HG13 | 1:90:A:PRO:HD2 | 8 | 0.34 |
| (2,2298) | 1:18:A:LEU:HD22 | 1:17:A:ASN:H | 3 | 0.34 |
| (2,2264) | 1:134:A:LEU:HD13 | 1:133:A:PRO:HA | 17 | 0.34 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 9 | 0.34 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG23 | 10 | 0.34 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 5 | 0.34 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 6 | 0.34 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 2 | 0.34 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 3 | 0.34 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 3 | 0.34 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 14 | 0.34 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 15 | 0.34 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 7 | 0.34 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 20 | 0.34 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 7 | 0.34 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 12 | 0.34 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE1 | 12 | 0.34 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE1 | 16 | 0.34 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 10 | 0.34 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 16 | 0.34 |
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 5 | 0.34 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 10 | 0.34 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 1 | 0.34 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 3 | 0.34 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG21 | 6 | 0.34 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 7 | 0.34 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 13 | 0.34 |
| (2,1833) | 1:88:A:VAL:HB | 1:88:A:VAL:HG22 | 17 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 1 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 2 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 4 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 10 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 11 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 12 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 15 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 16 | 0.34 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 18 | 0.34 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 1 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 9 | 0.34 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 6 | 0.34 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 8 | 0.34 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 17 | 0.34 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 12 | 0.34 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 14 | 0.34 |
| (2,1621) | 1:161:A:HIS:HA | 1:161:A:HIS:HB2 | 16 | 0.34 |
| (2,1611) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB2 | 20 | 0.34 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD12 | 9 | 0.34 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 18 | 0.34 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 8 | 0.34 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 10 | 0.34 |
| (2,1520) | 1:57:A:LEU:HD11 | 1:60:A:PHE:H | 7 | 0.34 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 13 | 0.34 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 15 | 0.34 |
| (2,1520) | 1:57:A:LEU:HD11 | 1:60:A:PHE:H | 19 | 0.34 |
| (2,1500) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD2 | 5 | 0.34 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 14 | 0.34 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 15 | 0.34 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 6 | 0.34 |
| (2,1386) | 1:135:A:ALA:HB2 | 1:130:A:ALA:H | 18 | 0.34 |
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB1 | 5 | 0.34 |
| (2,1381) | 1:87:A:VAL:HG22 | 1:135:A:ALA:HB2 | 9 | 0.34 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 7 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 4 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 5 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 9 | 0.34 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 20 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB2 | 1:6:A:ALA:HA | 6 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 9 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 11 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB2 | 1:6:A:ALA:HA | 12 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 13 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 16 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 18 | 0.34 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 19 | 0.34 |
| (2,1355) | 1:51:A:ILE:HG21 | 1:32:A:ASP:H | 10 | 0.34 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 16 | 0.34 |
| (2,1335) | 1:59:A:ILE:HG22 | 1:57:A:LEU:H | 14 | 0.34 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 15 | 0.34 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG21 | 15 | 0.34 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 12 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 15 | 0.34 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 6 | 0.34 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 11 | 0.34 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 3 | 0.34 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 16 | 0.34 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 20 | 0.34 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 5 | 0.34 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 15 | 0.34 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 11 | 0.34 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD13 | 13 | 0.34 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 2 | 0.34 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 11 | 0.34 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 11 | 0.34 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 3 | 0.34 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 11 | 0.34 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 19 | 0.34 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG12 | 19 | 0.34 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 7 | 0.34 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 18 | 0.34 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 4 | 0.34 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 7 | 0.34 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG21 | 12 | 0.34 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 1 | 0.34 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 8 | 0.34 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 11 | 0.34 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 5 | 0.34 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 10 | 0.34 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 13 | 0.34 |
| (2,628) | 1:129:A:VAL:HG13 | 1:77:A:LEU:HD13 | 18 | 0.34 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 2 | 0.34 |
| (2,542) | 1:143:A:MET:HE2 | 1:154:A:TYR:HE1 | 15 | 0.34 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 16 | 0.34 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 19 | 0.34 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 20 | 0.34 |
| (2,539) | 1:143:A:MET:HE2 | 1:154:A:TYR:H | 7 | 0.34 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 11 | 0.34 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 19 | 0.34 |
| (2,526) | 1:122:A:LEU:HD11 | 1:75:A:GLU:H | 19 | 0.34 |
| (2,479) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 15 | 0.34 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 5 | 0.34 |
| (2,455) | 1:48:A:THR:HG22 | 1:49:A:TYR:H | 17 | 0.34 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD12 | 10 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 5 | 0.34 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 13 | 0.34 |
| (2,375) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HG3 | 15 | 0.34 |
| (2,355) | 1:89:A:VAL:HG12 | 1:129:A:VAL:H | 7 | 0.34 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 10 | 0.34 |
| (2,355) | 1:89:A:VAL:HG12 | 1:129:A:VAL:H | 12 | 0.34 |
| (2,355) | 1:89:A:VAL:HG11 | 1:129:A:VAL:H | 14 | 0.34 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 17 | 0.34 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 2 | 0.34 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 2 | 0.34 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 10 | 0.34 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 15 | 0.34 |
| (2,291) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HD3 | 2 | 0.34 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 16 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 4 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 13 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 14 | 0.34 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 15 | 0.34 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 4 | 0.34 |
| (2,69) | 1:59:A:ILE:HA | 1:59:A:ILE:HG12 | 20 | 0.34 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 3 | 0.34 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 12 | 0.34 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 13 | 0.34 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 12 | 0.33 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 16 | 0.33 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 3 | 0.33 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 14 | 0.33 |
| (2,4872) | 1:113:A:ASN:H | 1:117:A:GLU:HG2 | 15 | 0.33 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 2 | 0.33 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 5 | 0.33 |
| (2,4853) | 1:100:A:GLN:HG3 | 1:100:A:GLN:H | 18 | 0.33 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 19 | 0.33 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD2 | 5 | 0.33 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 8 | 0.33 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 14 | 0.33 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 16 | 0.33 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 3 | 0.33 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 7 | 0.33 |
| (2,4782) | 1:16:A:GLN:HG3 | 1:16:A:GLN:HE22 | 10 | 0.33 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 15 | 0.33 |
| (2,4782) | 1:16:A:GLN:HG2 | 1:16:A:GLN:HE22 | 19 | 0.33 |
| (2,4777) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 2 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD2 | 17 | 0.33 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 4 | 0.33 |
| (2,4760) | 1:5:A:VAL:HG21 | 1:4:A:THR:H | 20 | 0.33 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 3 | 0.33 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 16 | 0.33 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 7 | 0.33 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 10 | 0.33 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 1 | 0.33 |
| (2,4714) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 4 | 0.33 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 15 | 0.33 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 5 | 0.33 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 3 | 0.33 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 20 | 0.33 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 10 | 0.33 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 18 | 0.33 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 6 | 0.33 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 15 | 0.33 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 16 | 0.33 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 12 | 0.33 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 18 | 0.33 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 11 | 0.33 |
| (2,4534) | 1:149:A:ILE:HG22 | 1:150:A:ILE:HG13 | 5 | 0.33 |
| (2,4534) | 1:149:A:ILE:HG23 | 1:150:A:ILE:HG13 | 8 | 0.33 |
| (2,4534) | 1:149:A:ILE:HG22 | 1:150:A:ILE:HG13 | 14 | 0.33 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 9 | 0.33 |
| (2,4533) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HB2 | 17 | 0.33 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD11 | 15 | 0.33 |
| (2,4474) | 1:77:A:LEU:HD12 | 1:138:A:GLU:HB2 | 16 | 0.33 |
| (2,4462) | 1:62:A:LEU:HD21 | 1:61:A:LYS:HA | 6 | 0.33 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 17 | 0.33 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 4 | 0.33 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 11 | 0.33 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 8 | 0.33 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 5 | 0.33 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 9 | 0.33 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 2 | 0.33 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 6 | 0.33 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 16 | 0.33 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG2 | 2 | 0.33 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG3 | 11 | 0.33 |
| (2,4398) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HD2 | 17 | 0.33 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 3 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4367) | 1:62:A:LEU:HD21 | 1:61:A:LYS:H | 6 | 0.33 |
| (2,4360) | 1:157:A:SER:HB2 | 1:158:A:LYS:HD2 | 8 | 0.33 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 2 | 0.33 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 8 | 0.33 |
| (2,4335) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB3 | 2 | 0.33 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 7 | 0.33 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 2 | 0.33 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 4 | 0.33 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 7 | 0.33 |
| (2,4319) | 1:115:A:ILE:HG23 | 1:118:A:ARG:HB3 | 7 | 0.33 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 9 | 0.33 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 12 | 0.33 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 8 | 0.33 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 10 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 2 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 3 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 18 | 0.33 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 19 | 0.33 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 9 | 0.33 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 14 | 0.33 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 1 | 0.33 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 18 | 0.33 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 16 | 0.33 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 2 | 0.33 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 19 | 0.33 |
| (2,4158) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HA | 20 | 0.33 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 8 | 0.33 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 20 | 0.33 |
| (2,4103) | 1:51:A:ILE:HG23 | 1:60:A:PHE:HE2 | 3 | 0.33 |
| (2,4026) | 1:152:A:LYS:HE2 | 1:76:A:TRP:H | 20 | 0.33 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 5 | 0.33 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD23 | 6 | 0.33 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD22 | 10 | 0.33 |
| (2,4021) | 1:11:A:LEU:HG | 1:11:A:LEU:HD13 | 3 | 0.33 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 6 | 0.33 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 18 | 0.33 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE1 | 9 | 0.33 |
| (2,3958) | 1:109:A:ILE:HD13 | 1:107:A:ASP:H | 2 | 0.33 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:107:A:ASP:H | 8 | 0.33 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 12 | 0.33 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 11 | 0.33 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 4 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 5 | 0.33 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 7 | 0.33 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 9 | 0.33 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 11 | 0.33 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 19 | 0.33 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 17 | 0.33 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 19 | 0.33 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG3 | 20 | 0.33 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 5 | 0.33 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 10 | 0.33 |
| (2,3885) | 1:122:A:LEU:HD21 | 1:93:A:PRO:HG2 | 10 | 0.33 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 8 | 0.33 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 19 | 0.33 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 17 | 0.33 |
| (2,3793) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 20 | 0.33 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 13 | 0.33 |
| (2,3763) | 1:53:A:VAL:HG23 | 1:64:A:GLU:HB3 | 16 | 0.33 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 7 | 0.33 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG22 | 2 | 0.33 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 9 | 0.33 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 2 | 0.33 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 11 | 0.33 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 20 | 0.33 |
| (2,3708) | 1:92:A:LEU:HD12 | 1:78:A:ARG:H | 9 | 0.33 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 15 | 0.33 |
| (2,3707) | 1:92:A:LEU:HD23 | 1:78:A:ARG:H | 18 | 0.33 |
| (2,3703) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HG3 | 17 | 0.33 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 19 | 0.33 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 7 | 0.33 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 10 | 0.33 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 4 | 0.33 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 3 | 0.33 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 12 | 0.33 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 12 | 0.33 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 9 | 0.33 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 16 | 0.33 |
| (2,3289) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 12 | 0.33 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 5 | 0.33 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 9 | 0.33 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 11 | 0.33 |
| (2,3067) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HD22 | 19 | 0.33 |
| (2,3016) | 1:9:A:ARG:HA | 1:9:A:ARG:H | 20 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 12 | 0.33 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 6 | 0.33 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 8 | 0.33 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 4 | 0.33 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 7 | 0.33 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 19 | 0.33 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 4 | 0.33 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 8 | 0.33 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 4 | 0.33 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 14 | 0.33 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 19 | 0.33 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 13 | 0.33 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 10 | 0.33 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 11 | 0.33 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 16 | 0.33 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 4 | 0.33 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 8 | 0.33 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 6 | 0.33 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 16 | 0.33 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 3 | 0.33 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 4 | 0.33 |
| (2,2354) | 1:59:A:ILE:HD11 | 1:60:A:PHE:HZ | 20 | 0.33 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 20 | 0.33 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 1 | 0.33 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 4 | 0.33 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 11 | 0.33 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 15 | 0.33 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 20 | 0.33 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 11 | 0.33 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD2 | 3 | 0.33 |
| (2,2208) | 1:77:A:LEU:HB3 | 1:77:A:LEU:HD13 | 16 | 0.33 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE1 | 5 | 0.33 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 17 | 0.33 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 6 | 0.33 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 1 | 0.33 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 3 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 4 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 5 | 0.33 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 6 | 0.33 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 7 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 8 | 0.33 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 9 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 10 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 11 | 0.33 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 12 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 13 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 18 | 0.33 |
| (2,2086) | 1:8:A:THR:HG21 | 1:8:A:THR:HB | 19 | 0.33 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 20 | 0.33 |
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 12 | 0.33 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 13 | 0.33 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 16 | 0.33 |
| (2,1965) | 1:149:A:ILE:HD12 | 1:150:A:ILE:HA | 3 | 0.33 |
| (2,1951) | 1:38:A:THR:HG23 | 1:110:A:PHE:HE2 | 15 | 0.33 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 17 | 0.33 |
| (2,1915) | 1:134:A:LEU:HD22 | 1:86:A:LYS:HB3 | 16 | 0.33 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 12 | 0.33 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG11 | 3 | 0.33 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG13 | 5 | 0.33 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 8 | 0.33 |
| (2,1832) | 1:88:A:VAL:HB | 1:88:A:VAL:HG12 | 19 | 0.33 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 18 | 0.33 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 19 | 0.33 |
| (2,1722) | 1:61:A:LYS:HB3 | 1:61:A:LYS:H | 15 | 0.33 |
| (2,1611) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB2 | 9 | 0.33 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 17 | 0.33 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD13 | 8 | 0.33 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD12 | 17 | 0.33 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 1 | 0.33 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 11 | 0.33 |
| (2,1520) | 1:57:A:LEU:HD11 | 1:60:A:PHE:H | 16 | 0.33 |
| (2,1500) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD2 | 12 | 0.33 |
| (2,1500) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD2 | 16 | 0.33 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 11 | 0.33 |
| (2,1401) | 1:39:A:VAL:HG22 | 1:46:A:PHE:HE2 | 4 | 0.33 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 10 | 0.33 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 2 | 0.33 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 4 | 0.33 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 4 | 0.33 |
| (2,1376) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HZ | 6 | 0.33 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 15 | 0.33 |
| (2,1376) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HZ | 18 | 0.33 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 3 | 0.33 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 13 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 18 | 0.33 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB3 | 19 | 0.33 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 1 | 0.33 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 13 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 4 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB2 | 1:6:A:ALA:HA | 5 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 7 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 10 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 14 | 0.33 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 15 | 0.33 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 1 | 0.33 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 9 | 0.33 |
| (2,1355) | 1:51:A:ILE:HG21 | 1:32:A:ASP:H | 15 | 0.33 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 3 | 0.33 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 12 | 0.33 |
| (2,1336) | 1:59:A:ILE:HG23 | 1:61:A:LYS:H | 13 | 0.33 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE2 | 8 | 0.33 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE2 | 9 | 0.33 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 13 | 0.33 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 11 | 0.33 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 4 | 0.33 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 7 | 0.33 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 10 | 0.33 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 18 | 0.33 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 9 | 0.33 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 11 | 0.33 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 5 | 0.33 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 9 | 0.33 |
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 1 | 0.33 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 7 | 0.33 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 9 | 0.33 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 19 | 0.33 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 20 | 0.33 |
| (2,1072) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HD2 | 13 | 0.33 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 16 | 0.33 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 4 | 0.33 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 4 | 0.33 |
| (2,1057) | 1:159:A:ILE:HD11 | 1:159:A:ILE:H | 16 | 0.33 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 12 | 0.33 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 5 | 0.33 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG22 | 6 | 0.33 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 4 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 9 | 0.33 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 10 | 0.33 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 14 | 0.33 |
| (2,917) | 1:109:A:ILE:HG23 | 1:110:A:PHE:H | 13 | 0.33 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 10 | 0.33 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG21 | 9 | 0.33 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG22 | 18 | 0.33 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG23 | 5 | 0.33 |
| (2,875) | 1:115:A:ILE:HG13 | 1:115:A:ILE:HG22 | 8 | 0.33 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 12 | 0.33 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 18 | 0.33 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 18 | 0.33 |
| (2,755) | 1:122:A:LEU:HD21 | 1:122:A:LEU:HA | 10 | 0.33 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 8 | 0.33 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 17 | 0.33 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD12 | 6 | 0.33 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 12 | 0.33 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 9 | 0.33 |
| (2,523) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HZ | 3 | 0.33 |
| (2,519) | 1:122:A:LEU:HD11 | 1:74:A:PHE:HD2 | 15 | 0.33 |
| (2,495) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HD11 | 7 | 0.33 |
| (2,495) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HD13 | 15 | 0.33 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 9 | 0.33 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 20 | 0.33 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD12 | 5 | 0.33 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 11 | 0.33 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 16 | 0.33 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 9 | 0.33 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 3 | 0.33 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 19 | 0.33 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 10 | 0.33 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 11 | 0.33 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 12 | 0.33 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 18 | 0.33 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 20 | 0.33 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 12 | 0.33 |
| (2,137) | 1:67:A:VAL:HG22 | 1:68:A:ARG:H | 11 | 0.33 |
| (2,4981) | 1:89:A:VAL:H | 1:134:A:LEU:HB3 | 10 | 0.32 |
| (2,4968) | 1:152:A:LYS:HD3 | 1:76:A:TRP:HE1 | 18 | 0.32 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 10 | 0.32 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 19 | 0.32 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 20 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 5 | 0.32 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 8 | 0.32 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 2 | 0.32 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 15 | 0.32 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 13 | 0.32 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 18 | 0.32 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 17 | 0.32 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 9 | 0.32 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 12 | 0.32 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 18 | 0.32 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 13 | 0.32 |
| (2,4678) | 1:19:A:ASN:HD21 | 1:18:A:LEU:HB3 | 13 | 0.32 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 19 | 0.32 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG2 | 9 | 0.32 |
| (2,4623) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 5 | 0.32 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 8 | 0.32 |
| (2,4623) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 18 | 0.32 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 17 | 0.32 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 6 | 0.32 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 2 | 0.32 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 16 | 0.32 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 2 | 0.32 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 2 | 0.32 |
| (2,4480) | 1:92:A:LEU:HD13 | 1:76:A:TRP:H | 18 | 0.32 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 14 | 0.32 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 7 | 0.32 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 8 | 0.32 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 16 | 0.32 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 2 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 1 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 4 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 9 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 15 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 18 | 0.32 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 19 | 0.32 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 1 | 0.32 |
| (2,4401) | 1:9:A:ARG:HD3 | 1:9:A:ARG:HG2 | 9 | 0.32 |
| (2,4401) | 1:10:A:ARG:HD3 | 1:10:A:ARG:HG3 | 12 | 0.32 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 18 | 0.32 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 2 | 0.32 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 15 | 0.32 |
| (2,4298) | 1:93:A:PRO:HD3 | 1:125:A:PHE:HE1 | 5 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 19 | 0.32 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 11 | 0.32 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 20 | 0.32 |
| (2,4259) | 1:63:A:LYS:HD2 | 1:63:A:LYS:HE3 | 4 | 0.32 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 9 | 0.32 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 12 | 0.32 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 16 | 0.32 |
| (2,4259) | 1:63:A:LYS:HD2 | 1:63:A:LYS:HE3 | 20 | 0.32 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 3 | 0.32 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:139:A:ARG:HG2 | 2 | 0.32 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 11 | 0.32 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 11 | 0.32 |
| (2,4122) | 1:33:A:VAL:HG11 | 1:144:A:PHE:HE1 | 4 | 0.32 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 6 | 0.32 |
| (2,4094) | 1:115:A:ILE:HG23 | 1:119:A:LYS:H | 18 | 0.32 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 7 | 0.32 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 9 | 0.32 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 5 | 0.32 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 1 | 0.32 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB2 | 19 | 0.32 |
| (2,3947) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 2 | 0.32 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 4 | 0.32 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 9 | 0.32 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 3 | 0.32 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 18 | 0.32 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 2 | 0.32 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 13 | 0.32 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 17 | 0.32 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 12 | 0.32 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 4 | 0.32 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 5 | 0.32 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 15 | 0.32 |
| (2,3759) | 1:53:A:VAL:HG22 | 1:30:A:GLU:H | 11 | 0.32 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD2 | 3 | 0.32 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 2 | 0.32 |
| (2,3684) | 1:155:A:THR:HG21 | 1:156:A:PRO:HD2 | 6 | 0.32 |
| (2,3684) | 1:155:A:THR:HG21 | 1:156:A:PRO:HD2 | 7 | 0.32 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 17 | 0.32 |
| (2,3662) | 1:64:A:GLU:HA | 1:63:A:LYS:HB2 | 9 | 0.32 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 5 | 0.32 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 12 | 0.32 |
| (2,3639) | 1:79:A:SER:HB3 | 1:83:A:ARG:HG3 | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 6 | 0.32 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 10 | 0.32 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 2 | 0.32 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:29:A:LEU:HB3 | 17 | 0.32 |
| (2,3523) | 1:162:A:ALA:HB1 | 1:162:A:ALA:H | 7 | 0.32 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 20 | 0.32 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 5 | 0.32 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 14 | 0.32 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 5 | 0.32 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 6 | 0.32 |
| (2,3253) | 1:55:A:THR:HG22 | 1:64:A:GLU:H | 5 | 0.32 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 16 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 1 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 6 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 10 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 12 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 13 | 0.32 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 16 | 0.32 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 7 | 0.32 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 6 | 0.32 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 9 | 0.32 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 4 | 0.32 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 14 | 0.32 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 6 | 0.32 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 8 | 0.32 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG23 | 13 | 0.32 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 19 | 0.32 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 10 | 0.32 |
| (2,2632) | 1:150:A:ILE:H | 1:69:A:ARG:HB2 | 20 | 0.32 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 15 | 0.32 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 16 | 0.32 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 15 | 0.32 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 7 | 0.32 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 11 | 0.32 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 10 | 0.32 |
| (2,2373) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HE1 | 18 | 0.32 |
| (2,2285) | 1:161:A:HIS:HA | 1:161:A:HIS:HD2 | 8 | 0.32 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 1 | 0.32 |
| (2,2228) | 1:89:A:VAL:HG21 | 1:82:A:GLU:HB2 | 18 | 0.32 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 18 | 0.32 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 2 | 0.32 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 12 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 19 | 0.32 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 14 | 0.32 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 15 | 0.32 |
| (2,2086) | 1:8:A:THR:HG23 | 1:8:A:THR:HB | 16 | 0.32 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 17 | 0.32 |
| (2,1953) | 1:145:A:LEU:HD21 | 1:141:A:LEU:HB3 | 3 | 0.32 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 12 | 0.32 |
| (2,1915) | 1:134:A:LEU:HD22 | 1:86:A:LYS:HB3 | 12 | 0.32 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 19 | 0.32 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 3 | 0.32 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 12 | 0.32 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 13 | 0.32 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 1 | 0.32 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 17 | 0.32 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 12 | 0.32 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG22 | 9 | 0.32 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 2 | 0.32 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 2 | 0.32 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 9 | 0.32 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 17 | 0.32 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 19 | 0.32 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 18 | 0.32 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 19 | 0.32 |
| (2,1520) | 1:57:A:LEU:HD12 | 1:60:A:PHE:H | 5 | 0.32 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 10 | 0.32 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 19 | 0.32 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 1 | 0.32 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 4 | 0.32 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 5 | 0.32 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 17 | 0.32 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 1 | 0.32 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 6 | 0.32 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 8 | 0.32 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 11 | 0.32 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 17 | 0.32 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 11 | 0.32 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 19 | 0.32 |
| (2,1376) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HZ | 13 | 0.32 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 8 | 0.32 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 17 | 0.32 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 1 | 0.32 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 3 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 8 | 0.32 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 10 | 0.32 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 13 | 0.32 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 13 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 4 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG21 | 1:32:A:ASP:H | 7 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 11 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 12 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 18 | 0.32 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 20 | 0.32 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 1 | 0.32 |
| (2,1338) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HA | 4 | 0.32 |
| (2,1336) | 1:59:A:ILE:HG22 | 1:61:A:LYS:H | 7 | 0.32 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 1 | 0.32 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 17 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 1 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 9 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 15 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 17 | 0.32 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 20 | 0.32 |
| (2,1244) | 1:81:A:LEU:HD22 | 1:135:A:ALA:HB1 | 20 | 0.32 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 11 | 0.32 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 2 | 0.32 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD13 | 13 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 4 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 6 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 15 | 0.32 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 18 | 0.32 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 15 | 0.32 |
| (2,1086) | 1:139:A:ARG:HD3 | 1:154:A:TYR:HD2 | 15 | 0.32 |
| (2,1057) | 1:159:A:ILE:HD13 | 1:159:A:ILE:H | 8 | 0.32 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 2 | 0.32 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 10 | 0.32 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 12 | 0.32 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 7 | 0.32 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 13 | 0.32 |
| (2,855) | 1:115:A:ILE:HG21 | 1:112:A:ASP:HA | 9 | 0.32 |
| (2,847) | 1:115:A:ILE:HD12 | 1:115:A:ILE:H | 5 | 0.32 |
| (2,847) | 1:115:A:ILE:HD13 | 1:115:A:ILE:H | 8 | 0.32 |
| (2,847) | 1:115:A:ILE:HD11 | 1:115:A:ILE:H | 15 | 0.32 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 14 | 0.32 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 20 | 0.32 |
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 18 | 0.32 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 20 | 0.32 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 13 | 0.32 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 18 | 0.32 |
| (2,479) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG21 | 10 | 0.32 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 13 | 0.32 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD13 | 8 | 0.32 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 14 | 0.32 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 17 | 0.32 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 18 | 0.32 |
| (2,428) | 1:13:A:THR:HG23 | 1:12:A:ILE:H | 20 | 0.32 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD13 | 19 | 0.32 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 7 | 0.32 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 12 | 0.32 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 1 | 0.32 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 4 | 0.32 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 8 | 0.32 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 14 | 0.32 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 17 | 0.32 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 1 | 0.32 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD23 | 8 | 0.32 |
| (2,243) | 1:150:A:ILE:HD11 | 1:150:A:ILE:H | 16 | 0.32 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 1 | 0.32 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 10 | 0.32 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 11 | 0.32 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 8 | 0.31 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HB3 | 13 | 0.31 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 10 | 0.31 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 16 | 0.31 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 12 | 0.31 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 1 | 0.31 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 6 | 0.31 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 8 | 0.31 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG13 | 8 | 0.31 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 18 | 0.31 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 13 | 0.31 |
| (2,4760) | 1:5:A:VAL:HG23 | 1:4:A:THR:H | 6 | 0.31 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG22 | 10 | 0.31 |
| (2,4741) | 1:5:A:VAL:HG12 | 1:5:A:VAL:H | 5 | 0.31 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 12 | 0.31 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 18 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG23 | 12 | 0.31 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 14 | 0.31 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 8 | 0.31 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 9 | 0.31 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 17 | 0.31 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD21 | 9 | 0.31 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 11 | 0.31 |
| (2,4683) | 1:137:A:ASN:H | 1:141:A:LEU:H | 1 | 0.31 |
| (2,4631) | 1:104:A:ARG:H | 1:103:A:PHE:HB3 | 3 | 0.31 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 1 | 0.31 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 3 | 0.31 |
| (2,4623) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 9 | 0.31 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 5 | 0.31 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 17 | 0.31 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 17 | 0.31 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 12 | 0.31 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 10 | 0.31 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 2 | 0.31 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 4 | 0.31 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 12 | 0.31 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 20 | 0.31 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 11 | 0.31 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 2 | 0.31 |
| (2,4462) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HA | 20 | 0.31 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 17 | 0.31 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 20 | 0.31 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 4 | 0.31 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 20 | 0.31 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 15 | 0.31 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 17 | 0.31 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD21 | 9 | 0.31 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 6 | 0.31 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 3 | 0.31 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 1 | 0.31 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 16 | 0.31 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 14 | 0.31 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG3 | 3 | 0.31 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 6 | 0.31 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 12 | 0.31 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 13 | 0.31 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 5 | 0.31 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 10 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 18 | 0.31 |
| (2,4118) | 1:5:A:VAL:HG22 | 1:4:A:THR:HA | 12 | 0.31 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 5 | 0.31 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 12 | 0.31 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 19 | 0.31 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 17 | 0.31 |
| (2,4094) | 1:115:A:ILE:HG23 | 1:119:A:LYS:H | 9 | 0.31 |
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 19 | 0.31 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 17 | 0.31 |
| (2,4071) | 1:81:A:LEU:HD13 | 1:141:A:LEU:H | 5 | 0.31 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 1 | 0.31 |
| (2,4042) | 1:45:A:ARG:HD2 | 1:41:A:VAL:HA | 10 | 0.31 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB3 | 12 | 0.31 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE1 | 12 | 0.31 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 19 | 0.31 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 1 | 0.31 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 10 | 0.31 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 13 | 0.31 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 15 | 0.31 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 16 | 0.31 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 7 | 0.31 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 14 | 0.31 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 17 | 0.31 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 15 | 0.31 |
| (2,3849) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 18 | 0.31 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 16 | 0.31 |
| (2,3793) | 1:130:A:ALA:HB1 | 1:145:A:LEU:HD13 | 2 | 0.31 |
| (2,3788) | 1:152:A:LYS:HA | 1:152:A:LYS:HD3 | 18 | 0.31 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 19 | 0.31 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 16 | 0.31 |
| (2,3726) | 1:89:A:VAL:HG22 | 1:78:A:ARG:HA | 15 | 0.31 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 9 | 0.31 |
| (2,3707) | 1:92:A:LEU:HD23 | 1:78:A:ARG:H | 10 | 0.31 |
| (2,3705) | 1:92:A:LEU:HG | 1:93:A:PRO:HD3 | 16 | 0.31 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 3 | 0.31 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 5 | 0.31 |
| (2,3690) | 1:150:A:ILE:HD12 | 1:143:A:MET:HG3 | 19 | 0.31 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 18 | 0.31 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 20 | 0.31 |
| (2,3676) | 1:11:A:LEU:HA | 1:11:A:LEU:H | 19 | 0.31 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 20 | 0.31 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 2 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 7 | 0.31 |
| (2,3605) | 1:61:A:LYS:H | 1:22:A:TYR:HE1 | 14 | 0.31 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 1 | 0.31 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG22 | 6 | 0.31 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 12 | 0.31 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 1 | 0.31 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 4 | 0.31 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD2 | 15 | 0.31 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 14 | 0.31 |
| (2,3115) | 1:27:A:ASN:HB2 | 1:27:A:ASN:HD22 | 18 | 0.31 |
| (2,3053) | 1:16:A:GLN:HG3 | 1:16:A:GLN:H | 18 | 0.31 |
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 17 | 0.31 |
| (2,2972) | 1:2:A:ALA:HB1 | 1:2:A:ALA:H | 4 | 0.31 |
| (2,2970) | 1:2:A:ALA:H | 1:1:A:THR:HA | 2 | 0.31 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 14 | 0.31 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 1 | 0.31 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 3 | 0.31 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD1 | 17 | 0.31 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 15 | 0.31 |
| (2,2690) | 1:37:A:GLN:HG3 | 1:37:A:GLN:HE22 | 9 | 0.31 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 20 | 0.31 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 18 | 0.31 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 8 | 0.31 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 10 | 0.31 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 2 | 0.31 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 17 | 0.31 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 1 | 0.31 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD2 | 17 | 0.31 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 14 | 0.31 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 9 | 0.31 |
| (2,2094) | 1:98:A:LEU:HD22 | 1:97:A:PHE:HZ | 12 | 0.31 |
| (2,2086) | 1:8:A:THR:HG22 | 1:8:A:THR:HB | 2 | 0.31 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 4 | 0.31 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 13 | 0.31 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 1 | 0.31 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 17 | 0.31 |
| (2,1915) | 1:134:A:LEU:HD23 | 1:86:A:LYS:HB3 | 13 | 0.31 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 5 | 0.31 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 3 | 0.31 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 1 | 0.31 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 19 | 0.31 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB3 | 16 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 2 | 0.31 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG23 | 1 | 0.31 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 4 | 0.31 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD12 | 5 | 0.31 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD13 | 6 | 0.31 |
| (2,1583) | 1:141:A:LEU:HD11 | 1:138:A:GLU:H | 15 | 0.31 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 12 | 0.31 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 9 | 0.31 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 19 | 0.31 |
| (2,1525) | 1:57:A:LEU:HD11 | 1:29:A:LEU:HA | 11 | 0.31 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 15 | 0.31 |
| (2,1525) | 1:57:A:LEU:HD12 | 1:29:A:LEU:HA | 16 | 0.31 |
| (2,1520) | 1:57:A:LEU:HD13 | 1:60:A:PHE:H | 8 | 0.31 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 1 | 0.31 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 3 | 0.31 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 13 | 0.31 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 3 | 0.31 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 9 | 0.31 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 12 | 0.31 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 16 | 0.31 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 18 | 0.31 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 3 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 2 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 3 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 5 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 7 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB2 | 1:162:A:ALA:HA | 9 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 13 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 15 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 19 | 0.31 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 20 | 0.31 |
| (2,1381) | 1:87:A:VAL:HG21 | 1:135:A:ALA:HB1 | 15 | 0.31 |
| (2,1360) | 1:6:A:ALA:HB3 | 1:6:A:ALA:HA | 17 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 3 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 5 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 6 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 8 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 14 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 15 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 16 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 17 | 0.31 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 20 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 1 | 0.31 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 20 | 0.31 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 2 | 0.31 |
| (2,1355) | 1:51:A:ILE:HG21 | 1:32:A:ASP:H | 5 | 0.31 |
| (2,1335) | 1:59:A:ILE:HG23 | 1:57:A:LEU:H | 10 | 0.31 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 18 | 0.31 |
| (2,1326) | 1:12:A:ILE:HG21 | 1:13:A:THR:HA | 8 | 0.31 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 11 | 0.31 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE2 | 13 | 0.31 |
| (2,1277) | 1:126:A:ILE:HD13 | 1:126:A:ILE:H | 5 | 0.31 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 13 | 0.31 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 5 | 0.31 |
| (2,1257) | 1:150:A:ILE:HG23 | 1:152:A:LYS:HG2 | 16 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB2 | 18 | 0.31 |
| (2,1244) | 1:81:A:LEU:HD22 | 1:135:A:ALA:HB1 | 19 | 0.31 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 3 | 0.31 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 9 | 0.31 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 19 | 0.31 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 1 | 0.31 |
| (2,1112) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HD11 | 12 | 0.31 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 8 | 0.31 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD13 | 1 | 0.31 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 18 | 0.31 |
| (2,1072) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HD2 | 10 | 0.31 |
| (2,1063) | 1:159:A:ILE:HD12 | 1:142:A:HIS:HB3 | 2 | 0.31 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 10 | 0.31 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 15 | 0.31 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 20 | 0.31 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD12 | 4 | 0.31 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 5 | 0.31 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 6 | 0.31 |
| (2,918) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HE1 | 5 | 0.31 |
| (2,823) | 1:117:A:GLU:HG3 | 1:118:A:ARG:H | 19 | 0.31 |
| (2,763) | 1:36:A:PRO:HG3 | 1:115:A:ILE:HD13 | 14 | 0.31 |
| (2,748) | 1:122:A:LEU:HD22 | 1:122:A:LEU:H | 15 | 0.31 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 1 | 0.31 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 16 | 0.31 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 10 | 0.31 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 6 | 0.31 |
| (2,520) | 1:122:A:LEU:HD11 | 1:125:A:PHE:HD2 | 15 | 0.31 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 2 | 0.31 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 7 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 12 | 0.31 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 8 | 0.31 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 11 | 0.31 |
| (2,357) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HZ | 12 | 0.31 |
| (2,355) | 1:89:A:VAL:HG13 | 1:129:A:VAL:H | 18 | 0.31 |
| (2,291) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HD3 | 4 | 0.31 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 16 | 0.31 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 17 | 0.31 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 1 | 0.31 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 9 | 0.3 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:123:A:GLU:HA | 15 | 0.3 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 18 | 0.3 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 19 | 0.3 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 18 | 0.3 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 6 | 0.3 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG13 | 10 | 0.3 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 15 | 0.3 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 5 | 0.3 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 20 | 0.3 |
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG3 | 4 | 0.3 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 20 | 0.3 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 2 | 0.3 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 19 | 0.3 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 9 | 0.3 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 1 | 0.3 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 12 | 0.3 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 15 | 0.3 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 17 | 0.3 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG12 | 8 | 0.3 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 5 | 0.3 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 6 | 0.3 |
| (2,4623) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 4 | 0.3 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 19 | 0.3 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 16 | 0.3 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 19 | 0.3 |
| (2,4576) | 1:54:A:LYS:HD2 | 1:28:A:PHE:HE1 | 13 | 0.3 |
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD12 | 19 | 0.3 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB3 | 15 | 0.3 |
| (2,4468) | 1:77:A:LEU:HD12 | 1:141:A:LEU:HG | 16 | 0.3 |
| (2,4465) | 1:61:A:LYS:HD3 | 1:62:A:LEU:HG | 11 | 0.3 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 5 | 0.3 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 19 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 3 | 0.3 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 5 | 0.3 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 17 | 0.3 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 5 | 0.3 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 2 | 0.3 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 3 | 0.3 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 7 | 0.3 |
| (2,4388) | 1:30:A:GLU:HG2 | 1:56:A:ASN:H | 16 | 0.3 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 11 | 0.3 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 11 | 0.3 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG21 | 1 | 0.3 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 14 | 0.3 |
| (2,4327) | 1:33:A:VAL:HG21 | 1:122:A:LEU:H | 8 | 0.3 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 18 | 0.3 |
| (2,4325) | 1:33:A:VAL:HG21 | 1:119:A:LYS:HG3 | 6 | 0.3 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 15 | 0.3 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 19 | 0.3 |
| (2,4295) | 1:54:A:LYS:HE2 | 1:55:A:THR:H | 18 | 0.3 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 14 | 0.3 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 17 | 0.3 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 9 | 0.3 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 11 | 0.3 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 15 | 0.3 |
| (2,4249) | 1:12:A:ILE:HD12 | 1:12:A:ILE:H | 10 | 0.3 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 7 | 0.3 |
| (2,4233) | 1:35:A:ASN:HB2 | 1:34:A:SER:HB2 | 16 | 0.3 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 1 | 0.3 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 2 | 0.3 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 3 | 0.3 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 11 | 0.3 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 6 | 0.3 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 10 | 0.3 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 7 | 0.3 |
| (2,4103) | 1:51:A:ILE:HG21 | 1:60:A:PHE:HE2 | 12 | 0.3 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 13 | 0.3 |
| (2,4098) | 1:59:A:ILE:HG23 | 1:60:A:PHE:HB3 | 3 | 0.3 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 17 | 0.3 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 3 | 0.3 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 7 | 0.3 |
| (2,4071) | 1:81:A:LEU:HD11 | 1:141:A:LEU:H | 19 | 0.3 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 9 | 0.3 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 4 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 16 | 0.3 |
| (2,4026) | 1:152:A:LYS:HE2 | 1:76:A:TRP:H | 17 | 0.3 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB3 | 3 | 0.3 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 1 | 0.3 |
| (2,3958) | 1:109:A:ILE:HD13 | 1:107:A:ASP:H | 12 | 0.3 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 3 | 0.3 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 12 | 0.3 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 14 | 0.3 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 20 | 0.3 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 9 | 0.3 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 5 | 0.3 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG3 | 8 | 0.3 |
| (2,3885) | 1:122:A:LEU:HD22 | 1:93:A:PRO:HG2 | 14 | 0.3 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 8 | 0.3 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 4 | 0.3 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 1 | 0.3 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 6 | 0.3 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 16 | 0.3 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 2 | 0.3 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 3 | 0.3 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 8 | 0.3 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 10 | 0.3 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 11 | 0.3 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 19 | 0.3 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 13 | 0.3 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 20 | 0.3 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 17 | 0.3 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 10 | 0.3 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 8 | 0.3 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 11 | 0.3 |
| (2,3728) | 1:89:A:VAL:HG11 | 1:78:A:ARG:HG2 | 12 | 0.3 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 17 | 0.3 |
| (2,3702) | 1:92:A:LEU:HD22 | 1:75:A:GLU:HG2 | 14 | 0.3 |
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 9 | 0.3 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 13 | 0.3 |
| (2,3669) | 1:60:A:PHE:HA | 1:55:A:THR:HG21 | 15 | 0.3 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 10 | 0.3 |
| (2,3658) | 1:66:A:THR:HG22 | 1:52:A:ARG:HD2 | 9 | 0.3 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 13 | 0.3 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 16 | 0.3 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 17 | 0.3 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 20 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3631) | 1:82:A:GLU:HA | 1:85:A:SER:HB2 | 1 | 0.3 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 12 | 0.3 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 19 | 0.3 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB2 | 6 | 0.3 |
| (2,3560) | 1:122:A:LEU:HD12 | 1:121:A:GLY:H | 12 | 0.3 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 8 | 0.3 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 11 | 0.3 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 1 | 0.3 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 9 | 0.3 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 18 | 0.3 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 7 | 0.3 |
| (2,2972) | 1:2:A:ALA:HB2 | 1:2:A:ALA:H | 12 | 0.3 |
| (2,2958) | 1:34:A:SER:H | 1:51:A:ILE:HG12 | 16 | 0.3 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG21 | 5 | 0.3 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 1 | 0.3 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 9 | 0.3 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 6 | 0.3 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 4 | 0.3 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 19 | 0.3 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 20 | 0.3 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 4 | 0.3 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 13 | 0.3 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 17 | 0.3 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 19 | 0.3 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 3 | 0.3 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 8 | 0.3 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 9 | 0.3 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 10 | 0.3 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 14 | 0.3 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD2 | 18 | 0.3 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 10 | 0.3 |
| (2,2338) | 1:29:A:LEU:HD21 | 1:130:A:ALA:H | 11 | 0.3 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 9 | 0.3 |
| (2,2285) | 1:161:A:HIS:HA | 1:161:A:HIS:HD2 | 11 | 0.3 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD13 | 4 | 0.3 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD11 | 12 | 0.3 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 10 | 0.3 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 8 | 0.3 |
| (2,2228) | 1:89:A:VAL:HG22 | 1:82:A:GLU:HB2 | 17 | 0.3 |
| (2,2212) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HZ | 2 | 0.3 |
| (2,2208) | 1:77:A:LEU:HB3 | 1:77:A:LEU:HD13 | 7 | 0.3 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 11 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 1 | 0.3 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 6 | 0.3 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 8 | 0.3 |
| (2,2131) | 1:29:A:LEU:HD22 | 1:136:A:GLN:HE21 | 6 | 0.3 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 10 | 0.3 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 19 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 1 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 2 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 5 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 7 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 11 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 13 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 18 | 0.3 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 19 | 0.3 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 12 | 0.3 |
| (2,1953) | 1:145:A:LEU:HD21 | 1:141:A:LEU:HB3 | 11 | 0.3 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 2 | 0.3 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 7 | 0.3 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 1 | 0.3 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 6 | 0.3 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 4 | 0.3 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 9 | 0.3 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 17 | 0.3 |
| (2,1712) | 1:12:A:ILE:HB | 1:12:A:ILE:HG12 | 13 | 0.3 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB1 | 20 | 0.3 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 14 | 0.3 |
| (2,1671) | 1:31:A:ILE:HG21 | 1:127:A:ASN:HD21 | 15 | 0.3 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 3 | 0.3 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 7 | 0.3 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 13 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD13 | 3 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD11 | 4 | 0.3 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 12 | 0.3 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 8 | 0.3 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 3 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 1 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 5 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 6 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 13 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 15 | 0.3 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 16 | 0.3 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 13 | 0.3 |
| (2,1525) | 1:57:A:LEU:HD13 | 1:29:A:LEU:HA | 5 | 0.3 |
| (2,1500) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD2 | 6 | 0.3 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 8 | 0.3 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 2 | 0.3 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 6 | 0.3 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 15 | 0.3 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 19 | 0.3 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 18 | 0.3 |
| (2,1401) | 1:39:A:VAL:HG23 | 1:46:A:PHE:HE2 | 1 | 0.3 |
| (2,1401) | 1:39:A:VAL:HG21 | 1:46:A:PHE:HE2 | 7 | 0.3 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 4 | 0.3 |
| (2,1392) | 1:162:A:ALA:HB1 | 1:162:A:ALA:HA | 10 | 0.3 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 8 | 0.3 |
| (2,1386) | 1:135:A:ALA:HB2 | 1:130:A:ALA:H | 10 | 0.3 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 10 | 0.3 |
| (2,1371) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HD1 | 13 | 0.3 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 4 | 0.3 |
| (2,1370) | 1:21:A:ALA:HB2 | 1:20:A:ASP:H | 11 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 1 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 2 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 4 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 7 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 9 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 12 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB3 | 18 | 0.3 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB1 | 19 | 0.3 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 3 | 0.3 |
| (2,1355) | 1:51:A:ILE:HG22 | 1:32:A:ASP:H | 13 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 1 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE1 | 18 | 0.3 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 19 | 0.3 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG21 | 7 | 0.3 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 3 | 0.3 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 4 | 0.3 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 14 | 0.3 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE2 | 10 | 0.3 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 19 | 0.3 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 8 | 0.3 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD1 | 18 | 0.3 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 1 | 0.3 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 4 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1197) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HG3 | 15 | 0.3 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 1 | 0.3 |
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 12 | 0.3 |
| (2,1103) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HB3 | 14 | 0.3 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 9 | 0.3 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 9 | 0.3 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 8 | 0.3 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 5 | 0.3 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 19 | 0.3 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG13 | 1 | 0.3 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 7 | 0.3 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 12 | 0.3 |
| (2,1008) | 1:101:A:LEU:HG | 1:101:A:LEU:H | 7 | 0.3 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 6 | 0.3 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 16 | 0.3 |
| (2,961) | 1:37:A:GLN:HG2 | 1:39:A:VAL:HG21 | 15 | 0.3 |
| (2,941) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 7 | 0.3 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 2 | 0.3 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 16 | 0.3 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 4 | 0.3 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 12 | 0.3 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 10 | 0.3 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 2 | 0.3 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 7 | 0.3 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 7 | 0.3 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 3 | 0.3 |
| (2,598) | 1:129:A:VAL:HG12 | 1:125:A:PHE:HD1 | 17 | 0.3 |
| (2,428) | 1:13:A:THR:HG22 | 1:12:A:ILE:H | 8 | 0.3 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 1 | 0.3 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 3 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 4 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 5 | 0.3 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 6 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 8 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 9 | 0.3 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 11 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 13 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 14 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 16 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 18 | 0.3 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 19 | 0.3 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 20 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 5 | 0.3 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 10 | 0.3 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 15 | 0.3 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 6 | 0.3 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 6 | 0.3 |
| (2,310) | 1:92:A:LEU:HD21 | 1:92:A:LEU:H | 18 | 0.3 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD21 | 17 | 0.3 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 4 | 0.3 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 1 | 0.3 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 6 | 0.3 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE3 | 13 | 0.29 |
| (2,4872) | 1:113:A:ASN:H | 1:117:A:GLU:HG2 | 12 | 0.29 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 20 | 0.29 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 7 | 0.29 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 6 | 0.29 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 17 | 0.29 |
| (2,4745) | 1:62:A:LEU:H | 1:146:A:GLN:HB3 | 2 | 0.29 |
| (2,4745) | 1:62:A:LEU:H | 1:146:A:GLN:HB3 | 11 | 0.29 |
| (2,4741) | 1:5:A:VAL:HG23 | 1:5:A:VAL:H | 17 | 0.29 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 4 | 0.29 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 6 | 0.29 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 16 | 0.29 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 9 | 0.29 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 16 | 0.29 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 3 | 0.29 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 11 | 0.29 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 4 | 0.29 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 7 | 0.29 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG12 | 1 | 0.29 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 15 | 0.29 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 7 | 0.29 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG2 | 3 | 0.29 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 12 | 0.29 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 5 | 0.29 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 12 | 0.29 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 12 | 0.29 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 10 | 0.29 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 12 | 0.29 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG11 | 9 | 0.29 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 16 | 0.29 |
| (2,4506) | 1:77:A:LEU:HD11 | 1:81:A:LEU:HA | 16 | 0.29 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 18 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4496) | 1:137:A:ASN:HA | 1:59:A:ILE:HD11 | 9 | 0.29 |
| (2,4480) | 1:92:A:LEU:HD12 | 1:76:A:TRP:H | 12 | 0.29 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD13 | 19 | 0.29 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 13 | 0.29 |
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 8 | 0.29 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 14 | 0.29 |
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 15 | 0.29 |
| (2,4437) | 1:31:A:ILE:HG23 | 1:53:A:VAL:HG12 | 6 | 0.29 |
| (2,4411) | 1:9:A:ARG:HB2 | 1:9:A:ARG:HG3 | 14 | 0.29 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 3 | 0.29 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 1 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG2 | 5 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD3 | 1:9:A:ARG:HG2 | 7 | 0.29 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 10 | 0.29 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG3 | 14 | 0.29 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD13 | 4 | 0.29 |
| (2,4374) | 1:43:A:ARG:HB2 | 1:43:A:ARG:HD2 | 13 | 0.29 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 8 | 0.29 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD23 | 5 | 0.29 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 2 | 0.29 |
| (2,4325) | 1:33:A:VAL:HG23 | 1:119:A:LYS:HG3 | 18 | 0.29 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 4 | 0.29 |
| (2,4259) | 1:63:A:LYS:HD3 | 1:63:A:LYS:HE3 | 6 | 0.29 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 2 | 0.29 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 8 | 0.29 |
| (2,4218) | 1:93:A:PRO:HA | 1:93:A:PRO:HG3 | 9 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 4 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 5 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 7 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 15 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 16 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 17 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 19 | 0.29 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 20 | 0.29 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 17 | 0.29 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 18 | 0.29 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD12 | 17 | 0.29 |
| (2,4158) | 1:57:A:LEU:HD11 | 1:57:A:LEU:HA | 3 | 0.29 |
| (2,4141) | 1:64:A:GLU:HG2 | 1:55:A:THR:H | 6 | 0.29 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 9 | 0.29 |
| (2,4122) | 1:33:A:VAL:HG13 | 1:144:A:PHE:HE1 | 17 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG22 | 1:4:A:THR:HA | 3 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4118) | 1:5:A:VAL:HG22 | 1:4:A:THR:HA | 9 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG21 | 1:4:A:THR:HA | 11 | 0.29 |
| (2,4118) | 1:5:A:VAL:HG22 | 1:4:A:THR:HA | 13 | 0.29 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 10 | 0.29 |
| (2,4103) | 1:51:A:ILE:HG21 | 1:60:A:PHE:HE2 | 2 | 0.29 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 6 | 0.29 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 14 | 0.29 |
| (2,4026) | 1:152:A:LYS:HE2 | 1:76:A:TRP:H | 13 | 0.29 |
| (2,4023) | 1:12:A:ILE:HD11 | 1:10:A:ARG:HD3 | 5 | 0.29 |
| (2,3979) | 1:9:A:ARG:HB3 | 1:9:A:ARG:HD2 | 4 | 0.29 |
| (2,3979) | 1:9:A:ARG:HB3 | 1:9:A:ARG:HD2 | 7 | 0.29 |
| (2,3959) | 1:109:A:ILE:HD12 | 1:110:A:PHE:HE1 | 13 | 0.29 |
| (2,3909) | 1:119:A:LYS:HD3 | 1:35:A:ASN:H | 6 | 0.29 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 10 | 0.29 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 2 | 0.29 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 6 | 0.29 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 6 | 0.29 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 13 | 0.29 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 19 | 0.29 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 6 | 0.29 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 12 | 0.29 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 9 | 0.29 |
| (2,3847) | 1:159:A:ILE:HG23 | 1:136:A:GLN:HB2 | 2 | 0.29 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 12 | 0.29 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 14 | 0.29 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG21 | 16 | 0.29 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 7 | 0.29 |
| (2,3728) | 1:89:A:VAL:HG11 | 1:78:A:ARG:HG2 | 7 | 0.29 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 14 | 0.29 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 11 | 0.29 |
| (2,3684) | 1:155:A:THR:HG21 | 1:156:A:PRO:HD2 | 5 | 0.29 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 14 | 0.29 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 16 | 0.29 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 19 | 0.29 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 14 | 0.29 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 16 | 0.29 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 18 | 0.29 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 5 | 0.29 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 15 | 0.29 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 11 | 0.29 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 17 | 0.29 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD1 | 20 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 1 | 0.29 |
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 2 | 0.29 |
| (2,3254) | 1:64:A:GLU:H | 1:53:A:VAL:HG11 | 2 | 0.29 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD12 | 9 | 0.29 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 14 | 0.29 |
| (2,3016) | 1:9:A:ARG:HA | 1:9:A:ARG:H | 12 | 0.29 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 19 | 0.29 |
| (2,2972) | 1:2:A:ALA:HB2 | 1:2:A:ALA:H | 18 | 0.29 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 3 | 0.29 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 9 | 0.29 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 12 | 0.29 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 15 | 0.29 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 20 | 0.29 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 7 | 0.29 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 8 | 0.29 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 12 | 0.29 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 2 | 0.29 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 3 | 0.29 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 11 | 0.29 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 13 | 0.29 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 18 | 0.29 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 10 | 0.29 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 14 | 0.29 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 18 | 0.29 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 16 | 0.29 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG22 | 5 | 0.29 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 1 | 0.29 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 13 | 0.29 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 5 | 0.29 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 1 | 0.29 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 16 | 0.29 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 8 | 0.29 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 8 | 0.29 |
| (2,2307) | 1:41:A:VAL:HG23 | 1:44:A:GLY:H | 13 | 0.29 |
| (2,2285) | 1:161:A:HIS:HA | 1:161:A:HIS:HD2 | 10 | 0.29 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 11 | 0.29 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG21 | 15 | 0.29 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 18 | 0.29 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG22 | 15 | 0.29 |
| (2,2228) | 1:89:A:VAL:HG23 | 1:82:A:GLU:HB2 | 7 | 0.29 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD2 | 2 | 0.29 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 3 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 11 | 0.29 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 18 | 0.29 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE1 | 2 | 0.29 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 7 | 0.29 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 14 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 4 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 8 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 9 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 14 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 15 | 0.29 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 16 | 0.29 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 3 | 0.29 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 14 | 0.29 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD22 | 19 | 0.29 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 8 | 0.29 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 10 | 0.29 |
| (2,1915) | 1:134:A:LEU:HD21 | 1:86:A:LYS:HB3 | 1 | 0.29 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 15 | 0.29 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 12 | 0.29 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 20 | 0.29 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 2 | 0.29 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 10 | 0.29 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 13 | 0.29 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 15 | 0.29 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 2 | 0.29 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 11 | 0.29 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB1 | 13 | 0.29 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 9 | 0.29 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 16 | 0.29 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD12 | 7 | 0.29 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD12 | 13 | 0.29 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 18 | 0.29 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 16 | 0.29 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 2 | 0.29 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 6 | 0.29 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 16 | 0.29 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 5 | 0.29 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 2 | 0.29 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 7 | 0.29 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 10 | 0.29 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 18 | 0.29 |
| (2,1386) | 1:135:A:ALA:HB2 | 1:130:A:ALA:H | 12 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 1 | 0.29 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 9 | 0.29 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 16 | 0.29 |
| (2,1380) | 1:135:A:ALA:HB1 | 1:141:A:LEU:HD23 | 11 | 0.29 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB2 | 10 | 0.29 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB1 | 14 | 0.29 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 8 | 0.29 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 20 | 0.29 |
| (2,1359) | 1:2:A:ALA:HA | 1:2:A:ALA:HB2 | 11 | 0.29 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 19 | 0.29 |
| (2,1338) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HA | 1 | 0.29 |
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 3 | 0.29 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 6 | 0.29 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 5 | 0.29 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 16 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 6 | 0.29 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 12 | 0.29 |
| (2,1277) | 1:126:A:ILE:HD11 | 1:126:A:ILE:H | 2 | 0.29 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 3 | 0.29 |
| (2,1277) | 1:126:A:ILE:HD12 | 1:126:A:ILE:H | 14 | 0.29 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 6 | 0.29 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB1 | 10 | 0.29 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 6 | 0.29 |
| (2,1233) | 1:81:A:LEU:HD12 | 1:81:A:LEU:H | 16 | 0.29 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 2 | 0.29 |
| (2,1111) | 1:148:A:GLU:HB3 | 1:149:A:ILE:HD13 | 9 | 0.29 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 15 | 0.29 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 3 | 0.29 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 3 | 0.29 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 16 | 0.29 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 13 | 0.29 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 10 | 0.29 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 20 | 0.29 |
| (2,1020) | 1:148:A:GLU:HB3 | 1:67:A:VAL:HG12 | 12 | 0.29 |
| (2,1018) | 1:148:A:GLU:HB2 | 1:148:A:GLU:HG3 | 19 | 0.29 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 1 | 0.29 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 8 | 0.29 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 11 | 0.29 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 17 | 0.29 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 7 | 0.29 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 8 | 0.29 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 11 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,798) | 1:118:A:ARG:HA | 1:122:A:LEU:HD22 | 12 | 0.29 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB1 | 6 | 0.29 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 16 | 0.29 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 2 | 0.29 |
| (2,525) | 1:122:A:LEU:HD12 | 1:122:A:LEU:H | 19 | 0.29 |
| (2,521) | 1:122:A:LEU:HD13 | 1:49:A:TYR:HD2 | 5 | 0.29 |
| (2,455) | 1:48:A:THR:HG22 | 1:49:A:TYR:H | 19 | 0.29 |
| (2,454) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 1 | 0.29 |
| (2,427) | 1:13:A:THR:HG21 | 1:13:A:THR:HB | 10 | 0.29 |
| (2,427) | 1:13:A:THR:HG22 | 1:13:A:THR:HB | 15 | 0.29 |
| (2,427) | 1:13:A:THR:HG23 | 1:13:A:THR:HB | 17 | 0.29 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD12 | 5 | 0.29 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 14 | 0.29 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 6 | 0.29 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 7 | 0.29 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 15 | 0.29 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 2 | 0.29 |
| (2,280) | 1:92:A:LEU:HB2 | 1:92:A:LEU:HD22 | 19 | 0.29 |
| (2,241) | 1:150:A:ILE:HG23 | 1:151:A:ASP:H | 12 | 0.29 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 5 | 0.29 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 9 | 0.29 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 17 | 0.29 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 11 | 0.29 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 2 | 0.29 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 7 | 0.29 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 14 | 0.29 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 16 | 0.29 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 18 | 0.28 |
| (2,4945) | 1:77:A:LEU:HD21 | 1:142:A:HIS:H | 2 | 0.28 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 19 | 0.28 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 19 | 0.28 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 5 | 0.28 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 12 | 0.28 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 16 | 0.28 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 17 | 0.28 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD3 | 3 | 0.28 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 17 | 0.28 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 10 | 0.28 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 14 | 0.28 |
| (2,4755) | 1:0:A:GLY:HA2 | 1:1:A:THR:H | 3 | 0.28 |
| (2,4741) | 1:5:A:VAL:HG21 | 1:5:A:VAL:H | 11 | 0.28 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 18 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 14 | 0.28 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 13 | 0.28 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 1 | 0.28 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 3 | 0.28 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 19 | 0.28 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 16 | 0.28 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 11 | 0.28 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 2 | 0.28 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 18 | 0.28 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 1 | 0.28 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 6 | 0.28 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 13 | 0.28 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 2 | 0.28 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 16 | 0.28 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG12 | 20 | 0.28 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 11 | 0.28 |
| (2,4617) | 1:85:A:SER:H | 1:83:A:ARG:HB3 | 6 | 0.28 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 5 | 0.28 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 1 | 0.28 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 15 | 0.28 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 1 | 0.28 |
| (2,4466) | 1:62:A:LEU:HB2 | 1:62:A:LEU:HG | 6 | 0.28 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 6 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 1 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 4 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 6 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 7 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 10 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 11 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 12 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 17 | 0.28 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 19 | 0.28 |
| (2,4446) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 20 | 0.28 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 15 | 0.28 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 17 | 0.28 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 10 | 0.28 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 15 | 0.28 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 2 | 0.28 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 16 | 0.28 |
| (2,4340) | 1:144:A:PHE:HA | 1:145:A:LEU:HD13 | 8 | 0.28 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 18 | 0.28 |
| (2,4326) | 1:33:A:VAL:HG22 | 1:125:A:PHE:HD2 | 14 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 2 | 0.28 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 18 | 0.28 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 5 | 0.28 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 8 | 0.28 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 14 | 0.28 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 9 | 0.28 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 20 | 0.28 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 17 | 0.28 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 20 | 0.28 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 9 | 0.28 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 18 | 0.28 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 8 | 0.28 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 1 | 0.28 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD11 | 2 | 0.28 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD12 | 13 | 0.28 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 16 | 0.28 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD13 | 8 | 0.28 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 4 | 0.28 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 6 | 0.28 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 14 | 0.28 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 1 | 0.28 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 7 | 0.28 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 1 | 0.28 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 2 | 0.28 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 8 | 0.28 |
| (2,4018) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HB3 | 2 | 0.28 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 10 | 0.28 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 13 | 0.28 |
| (2,3963) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 18 | 0.28 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 9 | 0.28 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 10 | 0.28 |
| (2,3943) | 1:115:A:ILE:HD13 | 1:112:A:ASP:HB2 | 16 | 0.28 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 9 | 0.28 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 15 | 0.28 |
| (2,3902) | 1:120:A:GLN:HB3 | 1:119:A:LYS:H | 18 | 0.28 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 15 | 0.28 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 10 | 0.28 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 11 | 0.28 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 14 | 0.28 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 1 | 0.28 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 18 | 0.28 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 7 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3849) | 1:53:A:VAL:HG21 | 1:55:A:THR:HG22 | 17 | 0.28 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 8 | 0.28 |
| (2,3795) | 1:130:A:ALA:HB2 | 1:131:A:GLY:H | 15 | 0.28 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 6 | 0.28 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 20 | 0.28 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 20 | 0.28 |
| (2,3755) | 1:48:A:THR:HG23 | 1:46:A:PHE:HB2 | 4 | 0.28 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 7 | 0.28 |
| (2,3728) | 1:89:A:VAL:HG11 | 1:78:A:ARG:HG2 | 3 | 0.28 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 5 | 0.28 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 2 | 0.28 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 1 | 0.28 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 11 | 0.28 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 18 | 0.28 |
| (2,3630) | 1:3:A:GLU:HA | 1:3:A:GLU:HG3 | 5 | 0.28 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 10 | 0.28 |
| (2,3630) | 1:3:A:GLU:HA | 1:3:A:GLU:HG3 | 13 | 0.28 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 18 | 0.28 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:29:A:LEU:HB3 | 3 | 0.28 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG21 | 18 | 0.28 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 20 | 0.28 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 8 | 0.28 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 16 | 0.28 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 9 | 0.28 |
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 16 | 0.28 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 4 | 0.28 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG23 | 16 | 0.28 |
| (2,3020) | 1:8:A:THR:HG23 | 1:9:A:ARG:H | 6 | 0.28 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 12 | 0.28 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 16 | 0.28 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD23 | 6 | 0.28 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 18 | 0.28 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 6 | 0.28 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 16 | 0.28 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 17 | 0.28 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD2 | 11 | 0.28 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 2 | 0.28 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 8 | 0.28 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 15 | 0.28 |
| (2,2581) | 1:98:A:LEU:HD21 | 1:99:A:ARG:H | 4 | 0.28 |
| (2,2568) | 1:108:A:GLY:H | 1:107:A:ASP:HB3 | 1 | 0.28 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 12 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 12 | 0.28 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 20 | 0.28 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 5 | 0.28 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 7 | 0.28 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 7 | 0.28 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 19 | 0.28 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 15 | 0.28 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 7 | 0.28 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 3 | 0.28 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 6 | 0.28 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 5 | 0.28 |
| (2,2271) | 1:145:A:LEU:HD11 | 1:60:A:PHE:HZ | 1 | 0.28 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 14 | 0.28 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD13 | 17 | 0.28 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 15 | 0.28 |
| (2,2149) | 1:33:A:VAL:HG12 | 1:32:A:ASP:H | 15 | 0.28 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 18 | 0.28 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 1 | 0.28 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 6 | 0.28 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 3 | 0.28 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG21 | 6 | 0.28 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 12 | 0.28 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG23 | 1 | 0.28 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 15 | 0.28 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 2 | 0.28 |
| (2,1874) | 1:103:A:PHE:HB2 | 1:104:A:ARG:HA | 3 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 1 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 7 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 8 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 11 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 14 | 0.28 |
| (2,1732) | 1:63:A:LYS:HG2 | 1:63:A:LYS:HE2 | 16 | 0.28 |
| (2,1700) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HD2 | 6 | 0.28 |
| (2,1679) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 18 | 0.28 |
| (2,1672) | 1:31:A:ILE:HG21 | 1:127:A:ASN:H | 16 | 0.28 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 10 | 0.28 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 10 | 0.28 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 17 | 0.28 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 4 | 0.28 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 8 | 0.28 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 11 | 0.28 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 17 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 11 | 0.28 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 9 | 0.28 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 9 | 0.28 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 14 | 0.28 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 8 | 0.28 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 8 | 0.28 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 4 | 0.28 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 12 | 0.28 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 14 | 0.28 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 17 | 0.28 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 14 | 0.28 |
| (2,1373) | 1:21:A:ALA:HA | 1:21:A:ALA:HB3 | 7 | 0.28 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 12 | 0.28 |
| (2,1370) | 1:21:A:ALA:HB1 | 1:20:A:ASP:H | 17 | 0.28 |
| (2,1360) | 1:6:A:ALA:HB1 | 1:6:A:ALA:HA | 2 | 0.28 |
| (2,1351) | 1:51:A:ILE:HG22 | 1:66:A:THR:HA | 5 | 0.28 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 14 | 0.28 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 12 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 6 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 10 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 15 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 17 | 0.28 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 18 | 0.28 |
| (2,1286) | 1:51:A:ILE:HD12 | 1:144:A:PHE:HE1 | 2 | 0.28 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 4 | 0.28 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE2 | 8 | 0.28 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 13 | 0.28 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 4 | 0.28 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 8 | 0.28 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 12 | 0.28 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 6 | 0.28 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 15 | 0.28 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 10 | 0.28 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 3 | 0.28 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 13 | 0.28 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG21 | 15 | 0.28 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 3 | 0.28 |
| (2,680) | 1:55:A:THR:HG23 | 1:63:A:LYS:HB3 | 19 | 0.28 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 15 | 0.28 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 6 | 0.28 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD13 | 17 | 0.28 |
| (2,608) | 1:129:A:VAL:HG13 | 1:126:A:ILE:HA | 6 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 11 | 0.28 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 15 | 0.28 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 13 | 0.28 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 8 | 0.28 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 14 | 0.28 |
| (2,454) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD12 | 2 | 0.28 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 3 | 0.28 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 9 | 0.28 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 14 | 0.28 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 1 | 0.28 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 14 | 0.28 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 19 | 0.28 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD11 | 12 | 0.28 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 6 | 0.28 |
| (2,357) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HZ | 9 | 0.28 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 2 | 0.28 |
| (2,312) | 1:92:A:LEU:HD21 | 1:74:A:PHE:HA | 13 | 0.28 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD2 | 1 | 0.28 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD2 | 12 | 0.28 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 5 | 0.28 |
| (2,151) | 1:66:A:THR:HG22 | 1:50:A:GLU:H | 8 | 0.28 |
| (2,133) | 1:67:A:VAL:HG11 | 1:66:A:THR:H | 19 | 0.28 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 17 | 0.27 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG22 | 14 | 0.27 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 1 | 0.27 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 5 | 0.27 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 16 | 0.27 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 1 | 0.27 |
| (2,4858) | 1:159:A:ILE:H | 1:138:A:GLU:HA | 15 | 0.27 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 10 | 0.27 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 16 | 0.27 |
| (2,4803) | 1:32:A:ASP:H | 1:53:A:VAL:HG12 | 14 | 0.27 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 18 | 0.27 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 19 | 0.27 |
| (2,4745) | 1:62:A:LEU:H | 1:146:A:GLN:HB3 | 4 | 0.27 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 13 | 0.27 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 12 | 0.27 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 6 | 0.27 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 12 | 0.27 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 7 | 0.27 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 15 | 0.27 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 3 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 1 | 0.27 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 8 | 0.27 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 5 | 0.27 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 13 | 0.27 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 14 | 0.27 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 17 | 0.27 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 18 | 0.27 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 15 | 0.27 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 2 | 0.27 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 11 | 0.27 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 18 | 0.27 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 3 | 0.27 |
| (2,4485) | 1:95:A:LYS:HE3 | 1:95:A:LYS:HG3 | 3 | 0.27 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG21 | 9 | 0.27 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 13 | 0.27 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 17 | 0.27 |
| (2,4446) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 2 | 0.27 |
| (2,4446) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 9 | 0.27 |
| (2,4446) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 13 | 0.27 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 16 | 0.27 |
| (2,4446) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 18 | 0.27 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 18 | 0.27 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG3 | 3 | 0.27 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 19 | 0.27 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 1 | 0.27 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 14 | 0.27 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 7 | 0.27 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 18 | 0.27 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 11 | 0.27 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 10 | 0.27 |
| (2,4240) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 1 | 0.27 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 1 | 0.27 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:139:A:ARG:HG2 | 8 | 0.27 |
| (2,4213) | 1:156:A:PRO:HB3 | 1:156:A:PRO:HD2 | 8 | 0.27 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 2 | 0.27 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 20 | 0.27 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 18 | 0.27 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 19 | 0.27 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 15 | 0.27 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 18 | 0.27 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE2 | 19 | 0.27 |
| (2,4118) | 1:5:A:VAL:HG23 | 1:4:A:THR:HA | 17 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 19 | 0.27 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 2 | 0.27 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 12 | 0.27 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG12 | 16 | 0.27 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 5 | 0.27 |
| (2,4018) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HB3 | 8 | 0.27 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 12 | 0.27 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB3 | 19 | 0.27 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 10 | 0.27 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 2 | 0.27 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 4 | 0.27 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 7 | 0.27 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 17 | 0.27 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 16 | 0.27 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 17 | 0.27 |
| (2,3942) | 1:115:A:ILE:HG22 | 1:119:A:LYS:HE2 | 12 | 0.27 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:120:A:GLN:HB3 | 5 | 0.27 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 14 | 0.27 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 20 | 0.27 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 8 | 0.27 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 12 | 0.27 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 2 | 0.27 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 5 | 0.27 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 6 | 0.27 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 4 | 0.27 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 13 | 0.27 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 14 | 0.27 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 11 | 0.27 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 10 | 0.27 |
| (2,3790) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 7 | 0.27 |
| (2,3790) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 12 | 0.27 |
| (2,3788) | 1:152:A:LYS:HA | 1:152:A:LYS:HD2 | 14 | 0.27 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 16 | 0.27 |
| (2,3775) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 12 | 0.27 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 20 | 0.27 |
| (2,3764) | 1:53:A:VAL:HG21 | 1:30:A:GLU:HG3 | 5 | 0.27 |
| (2,3740) | 1:87:A:VAL:HG23 | 1:86:A:LYS:H | 16 | 0.27 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 15 | 0.27 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 12 | 0.27 |
| (2,3713) | 1:90:A:PRO:HD3 | 1:129:A:VAL:HB | 3 | 0.27 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 5 | 0.27 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 20 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3684) | 1:155:A:THR:HG22 | 1:156:A:PRO:HD2 | 13 | 0.27 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 4 | 0.27 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 6 | 0.27 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 6 | 0.27 |
| (2,3658) | 1:66:A:THR:HG23 | 1:52:A:ARG:HD2 | 4 | 0.27 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 12 | 0.27 |
| (2,3616) | 1:32:A:ASP:HB3 | 1:52:A:ARG:HG3 | 20 | 0.27 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 6 | 0.27 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 8 | 0.27 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 9 | 0.27 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 13 | 0.27 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 9 | 0.27 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 12 | 0.27 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 14 | 0.27 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 4 | 0.27 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 5 | 0.27 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 1 | 0.27 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 3 | 0.27 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 2 | 0.27 |
| (2,3252) | 1:62:A:LEU:HD23 | 1:64:A:GLU:H | 7 | 0.27 |
| (2,3252) | 1:62:A:LEU:HD22 | 1:64:A:GLU:H | 11 | 0.27 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 7 | 0.27 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 6 | 0.27 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD21 | 13 | 0.27 |
| (2,3088) | 1:22:A:TYR:HB3 | 1:23:A:GLY:H | 14 | 0.27 |
| (2,3066) | 1:16:A:GLN:HE21 | 1:16:A:GLN:HB2 | 8 | 0.27 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 14 | 0.27 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 9 | 0.27 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 20 | 0.27 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 7 | 0.27 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 13 | 0.27 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 5 | 0.27 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 13 | 0.27 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 2 | 0.27 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 13 | 0.27 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 9 | 0.27 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 19 | 0.27 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 4 | 0.27 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 8 | 0.27 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 20 | 0.27 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 1 | 0.27 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 2 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 4 | 0.27 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 5 | 0.27 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 6 | 0.27 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG23 | 1 | 0.27 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 15 | 0.27 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 6 | 0.27 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 20 | 0.27 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 14 | 0.27 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 19 | 0.27 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 15 | 0.27 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 13 | 0.27 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 12 | 0.27 |
| (2,2436) | 1:61:A:LYS:H | 1:159:A:ILE:HG22 | 10 | 0.27 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 14 | 0.27 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 17 | 0.27 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 20 | 0.27 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 14 | 0.27 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 4 | 0.27 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 6 | 0.27 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 13 | 0.27 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 17 | 0.27 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 20 | 0.27 |
| (2,2011) | 1:134:A:LEU:HD12 | 1:88:A:VAL:H | 7 | 0.27 |
| (2,1952) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 10 | 0.27 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 20 | 0.27 |
| (2,1898) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HB2 | 11 | 0.27 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 4 | 0.27 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 5 | 0.27 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 6 | 0.27 |
| (2,1625) | 1:160:A:ARG:HD3 | 1:159:A:ILE:HB | 4 | 0.27 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 14 | 0.27 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD11 | 16 | 0.27 |
| (2,1583) | 1:141:A:LEU:HD11 | 1:138:A:GLU:H | 14 | 0.27 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 12 | 0.27 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 12 | 0.27 |
| (2,1525) | 1:57:A:LEU:HD12 | 1:29:A:LEU:HA | 19 | 0.27 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 19 | 0.27 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 6 | 0.27 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 2 | 0.27 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 11 | 0.27 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 14 | 0.27 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 13 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 5 | 0.27 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 8 | 0.27 |
| (2,1392) | 1:162:A:ALA:HB3 | 1:162:A:ALA:HA | 16 | 0.27 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 7 | 0.27 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 17 | 0.27 |
| (2,1380) | 1:135:A:ALA:HB1 | 1:141:A:LEU:HD23 | 8 | 0.27 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 3 | 0.27 |
| (2,1351) | 1:51:A:ILE:HG22 | 1:66:A:THR:HA | 7 | 0.27 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 19 | 0.27 |
| (2,1339) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HD3 | 9 | 0.27 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 20 | 0.27 |
| (2,1326) | 1:12:A:ILE:HG23 | 1:13:A:THR:HA | 13 | 0.27 |
| (2,1318) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG23 | 19 | 0.27 |
| (2,1289) | 1:51:A:ILE:HD11 | 1:33:A:VAL:HA | 7 | 0.27 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE2 | 19 | 0.27 |
| (2,1286) | 1:51:A:ILE:HD12 | 1:144:A:PHE:HE2 | 20 | 0.27 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 7 | 0.27 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 14 | 0.27 |
| (2,1233) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 8 | 0.27 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 17 | 0.27 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 2 | 0.27 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 4 | 0.27 |
| (2,1212) | 1:29:A:LEU:HD11 | 1:57:A:LEU:H | 10 | 0.27 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG22 | 11 | 0.27 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 9 | 0.27 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 12 | 0.27 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 1 | 0.27 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 15 | 0.27 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 20 | 0.27 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 5 | 0.27 |
| (2,988) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HB3 | 13 | 0.27 |
| (2,917) | 1:109:A:ILE:HG22 | 1:110:A:PHE:H | 8 | 0.27 |
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 5 | 0.27 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 4 | 0.27 |
| (2,608) | 1:129:A:VAL:HG13 | 1:126:A:ILE:HA | 5 | 0.27 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 20 | 0.27 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 8 | 0.27 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 1 | 0.27 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 11 | 0.27 |
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 18 | 0.27 |
| (2,516) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HA | 8 | 0.27 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 2 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 4 | 0.27 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 10 | 0.27 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 11 | 0.27 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 4 | 0.27 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 8 | 0.27 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 16 | 0.27 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD12 | 9 | 0.27 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG21 | 2 | 0.27 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 8 | 0.27 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 11 | 0.27 |
| (2,312) | 1:92:A:LEU:HD22 | 1:74:A:PHE:HA | 17 | 0.27 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 12 | 0.27 |
| (2,291) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HD3 | 19 | 0.27 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 14 | 0.27 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 14 | 0.27 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 13 | 0.27 |
| (2,133) | 1:67:A:VAL:HG13 | 1:66:A:THR:H | 6 | 0.27 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 5 | 0.27 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 12 | 0.26 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 4 | 0.26 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HB3 | 7 | 0.26 |
| (2,4951) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HG | 19 | 0.26 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 14 | 0.26 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 9 | 0.26 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 6 | 0.26 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 10 | 0.26 |
| (2,4821) | 1:51:A:ILE:H | 1:68:A:ARG:HG2 | 13 | 0.26 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 19 | 0.26 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 4 | 0.26 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 8 | 0.26 |
| (2,4759) | 1:3:A:GLU:H | 1:5:A:VAL:HG21 | 2 | 0.26 |
| (2,4745) | 1:62:A:LEU:H | 1:146:A:GLN:HB3 | 9 | 0.26 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 9 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 1 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 3 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 5 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 6 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 10 | 0.26 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 19 | 0.26 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 16 | 0.26 |
| (2,4726) | 1:50:A:GLU:H | 1:68:A:ARG:HG3 | 9 | 0.26 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 20 | 0.26 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG21 | 14 | 0.26 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 6 | 0.26 |
| (2,4702) | 1:64:A:GLU:HB2 | 1:64:A:GLU:H | 13 | 0.26 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 17 | 0.26 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 19 | 0.26 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 2 | 0.26 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 13 | 0.26 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 19 | 0.26 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 2 | 0.26 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 8 | 0.26 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 6 | 0.26 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 10 | 0.26 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG21 | 20 | 0.26 |
| (2,4574) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HD2 | 16 | 0.26 |
| (2,4534) | 1:149:A:ILE:HG21 | 1:150:A:ILE:HG13 | 6 | 0.26 |
| (2,4480) | 1:92:A:LEU:HD11 | 1:76:A:TRP:H | 19 | 0.26 |
| (2,4473) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HB2 | 3 | 0.26 |
| (2,4465) | 1:61:A:LYS:HD3 | 1:62:A:LEU:HG | 18 | 0.26 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 13 | 0.26 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 2 | 0.26 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 2 | 0.26 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 15 | 0.26 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 19 | 0.26 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 8 | 0.26 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 13 | 0.26 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD13 | 19 | 0.26 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD11 | 12 | 0.26 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 19 | 0.26 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD12 | 20 | 0.26 |
| (2,4351) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 11 | 0.26 |
| (2,4335) | 1:81:A:LEU:HD21 | 1:141:A:LEU:HB3 | 8 | 0.26 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 20 | 0.26 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD11 | 17 | 0.26 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 14 | 0.26 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 13 | 0.26 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD2 | 17 | 0.26 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 18 | 0.26 |
| (2,4249) | 1:12:A:ILE:HD13 | 1:12:A:ILE:H | 18 | 0.26 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 11 | 0.26 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 15 | 0.26 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 11 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 6 | 0.26 |
| (2,4139) | 1:137:A:ASN:HB3 | 1:141:A:LEU:HD22 | 8 | 0.26 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 19 | 0.26 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 8 | 0.26 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 19 | 0.26 |
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 17 | 0.26 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 14 | 0.26 |
| (2,4082) | 1:126:A:ILE:HD13 | 1:129:A:VAL:H | 18 | 0.26 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 20 | 0.26 |
| (2,4042) | 1:45:A:ARG:HD2 | 1:41:A:VAL:HA | 7 | 0.26 |
| (2,4023) | 1:12:A:ILE:HD12 | 1:10:A:ARG:HD3 | 3 | 0.26 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 1 | 0.26 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 10 | 0.26 |
| (2,4018) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HB3 | 11 | 0.26 |
| (2,4008) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HB2 | 14 | 0.26 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 6 | 0.26 |
| (2,3959) | 1:109:A:ILE:HD11 | 1:110:A:PHE:HE1 | 20 | 0.26 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 2 | 0.26 |
| (2,3943) | 1:115:A:ILE:HD12 | 1:112:A:ASP:HB2 | 5 | 0.26 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 20 | 0.26 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 19 | 0.26 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 11 | 0.26 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 15 | 0.26 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 18 | 0.26 |
| (2,3892) | 1:93:A:PRO:HG2 | 1:71:A:TYR:HE1 | 13 | 0.26 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 13 | 0.26 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 16 | 0.26 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 17 | 0.26 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 20 | 0.26 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 6 | 0.26 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 18 | 0.26 |
| (2,3849) | 1:55:A:THR:HG21 | 1:29:A:LEU:HD13 | 16 | 0.26 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 5 | 0.26 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 10 | 0.26 |
| (2,3790) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 19 | 0.26 |
| (2,3772) | 1:126:A:ILE:HG21 | 1:32:A:ASP:HA | 14 | 0.26 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 12 | 0.26 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 13 | 0.26 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 17 | 0.26 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 13 | 0.26 |
| (2,3726) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HA | 18 | 0.26 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3684) | 1:155:A:THR:HG21 | 1:156:A:PRO:HD2 | 3 | 0.26 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 7 | 0.26 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 9 | 0.26 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 14 | 0.26 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 20 | 0.26 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 14 | 0.26 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 19 | 0.26 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 15 | 0.26 |
| (2,3605) | 1:61:A:LYS:H | 1:22:A:TYR:HE1 | 6 | 0.26 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 6 | 0.26 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 7 | 0.26 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 17 | 0.26 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 15 | 0.26 |
| (2,3306) | 1:84:A:GLU:H | 1:85:A:SER:HB2 | 7 | 0.26 |
| (2,3306) | 1:84:A:GLU:H | 1:85:A:SER:HB2 | 11 | 0.26 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 1 | 0.26 |
| (2,3029) | 1:11:A:LEU:HG | 1:12:A:ILE:H | 8 | 0.26 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 11 | 0.26 |
| (2,3019) | 1:9:A:ARG:H | 1:7:A:ASP:HB2 | 18 | 0.26 |
| (2,2942) | 1:27:A:ASN:H | 1:57:A:LEU:HD21 | 14 | 0.26 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 18 | 0.26 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 11 | 0.26 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 14 | 0.26 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 20 | 0.26 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 5 | 0.26 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 3 | 0.26 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 9 | 0.26 |
| (2,2726) | 1:19:A:ASN:HD21 | 1:21:A:ALA:HB1 | 17 | 0.26 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 7 | 0.26 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 5 | 0.26 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 17 | 0.26 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 9 | 0.26 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 15 | 0.26 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 3 | 0.26 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 7 | 0.26 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 13 | 0.26 |
| (2,2373) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HE1 | 11 | 0.26 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 20 | 0.26 |
| (2,2298) | 1:18:A:LEU:HD22 | 1:17:A:ASN:H | 18 | 0.26 |
| (2,2271) | 1:145:A:LEU:HD12 | 1:60:A:PHE:HZ | 7 | 0.26 |
| (2,2266) | 1:136:A:GLN:HA | 1:136:A:GLN:HE21 | 13 | 0.26 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 5 | 0.26 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 8 | 0.26 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD2 | 12 | 0.26 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 5 | 0.26 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 14 | 0.26 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 16 | 0.26 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 3 | 0.26 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 14 | 0.26 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 16 | 0.26 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 17 | 0.26 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 11 | 0.26 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 17 | 0.26 |
| (2,2151) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG13 | 10 | 0.26 |
| (2,2149) | 1:33:A:VAL:HG11 | 1:32:A:ASP:H | 16 | 0.26 |
| (2,2131) | 1:29:A:LEU:HD23 | 1:136:A:GLN:HE21 | 1 | 0.26 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 15 | 0.26 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 17 | 0.26 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 20 | 0.26 |
| (2,2077) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 10 | 0.26 |
| (2,1983) | 1:61:A:LYS:HB2 | 1:62:A:LEU:HD12 | 10 | 0.26 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 13 | 0.26 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 20 | 0.26 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 17 | 0.26 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 15 | 0.26 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE1 | 18 | 0.26 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 9 | 0.26 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 9 | 0.26 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 9 | 0.26 |
| (2,1612) | 1:66:A:THR:HG23 | 1:50:A:GLU:HB3 | 8 | 0.26 |
| (2,1611) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB2 | 11 | 0.26 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 2 | 0.26 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 10 | 0.26 |
| (2,1590) | 1:129:A:VAL:HG21 | 1:141:A:LEU:HD12 | 11 | 0.26 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 18 | 0.26 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 18 | 0.26 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 9 | 0.26 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 14 | 0.26 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 7 | 0.26 |
| (2,1489) | 1:29:A:LEU:HD12 | 1:55:A:THR:HA | 5 | 0.26 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 11 | 0.26 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 17 | 0.26 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 20 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 20 | 0.26 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 14 | 0.26 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 17 | 0.26 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 11 | 0.26 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 13 | 0.26 |
| (2,1386) | 1:135:A:ALA:HB2 | 1:130:A:ALA:H | 7 | 0.26 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 14 | 0.26 |
| (2,1371) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HD1 | 6 | 0.26 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 12 | 0.26 |
| (2,1337) | 1:67:A:VAL:HG22 | 1:52:A:ARG:H | 17 | 0.26 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 14 | 0.26 |
| (2,1326) | 1:12:A:ILE:HG22 | 1:13:A:THR:HA | 10 | 0.26 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 15 | 0.26 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 1 | 0.26 |
| (2,1289) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HA | 9 | 0.26 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 14 | 0.26 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 11 | 0.26 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 14 | 0.26 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 17 | 0.26 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 17 | 0.26 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 18 | 0.26 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 12 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 1 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 4 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 5 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 6 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 7 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 9 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 12 | 0.26 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 19 | 0.26 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 15 | 0.26 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 3 | 0.26 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 16 | 0.26 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 4 | 0.26 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 5 | 0.26 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 10 | 0.26 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 5 | 0.26 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 9 | 0.26 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 17 | 0.26 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 14 | 0.26 |
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 19 | 0.26 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 2 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 6 | 0.26 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 10 | 0.26 |
| (2,988) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HB3 | 7 | 0.26 |
| (2,941) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 1 | 0.26 |
| (2,755) | 1:122:A:LEU:HD23 | 1:122:A:LEU:HA | 11 | 0.26 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 12 | 0.26 |
| (2,623) | 1:129:A:VAL:HG23 | 1:130:A:ALA:HB3 | 15 | 0.26 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 11 | 0.26 |
| (2,608) | 1:129:A:VAL:HG13 | 1:126:A:ILE:HA | 4 | 0.26 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 10 | 0.26 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 13 | 0.26 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 14 | 0.26 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 3 | 0.26 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 16 | 0.26 |
| (2,572) | 1:143:A:MET:HG2 | 1:144:A:PHE:H | 17 | 0.26 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 10 | 0.26 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 16 | 0.26 |
| (2,465) | 1:47:A:THR:HG21 | 1:114:A:PHE:HE2 | 6 | 0.26 |
| (2,457) | 1:48:A:THR:HG22 | 1:46:A:PHE:HE2 | 15 | 0.26 |
| (2,455) | 1:48:A:THR:HG23 | 1:49:A:TYR:H | 9 | 0.26 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 10 | 0.26 |
| (2,428) | 1:13:A:THR:HG22 | 1:12:A:ILE:H | 13 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 1 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 5 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 8 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 12 | 0.26 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 13 | 0.26 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 16 | 0.26 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 19 | 0.26 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 3 | 0.26 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 13 | 0.26 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 5 | 0.26 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 5 | 0.26 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 13 | 0.26 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 11 | 0.26 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 12 | 0.26 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 16 | 0.26 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 8 | 0.26 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 12 | 0.26 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 18 | 0.26 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 16 | 0.26 |
| (2,133) | 1:67:A:VAL:HG11 | 1:66:A:THR:H | 15 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 4 | 0.26 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG23 | 11 | 0.25 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD22 | 2 | 0.25 |
| (2,4945) | 1:77:A:LEU:HD23 | 1:142:A:HIS:H | 5 | 0.25 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD13 | 5 | 0.25 |
| (2,4872) | 1:113:A:ASN:H | 1:117:A:GLU:HG2 | 6 | 0.25 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 7 | 0.25 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 17 | 0.25 |
| (2,4862) | 1:158:A:LYS:H | 1:139:A:ARG:HB2 | 7 | 0.25 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD11 | 5 | 0.25 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD11 | 16 | 0.25 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 13 | 0.25 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 17 | 0.25 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 15 | 0.25 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 20 | 0.25 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 3 | 0.25 |
| (2,4761) | 1:4:A:THR:H | 1:3:A:GLU:HG3 | 12 | 0.25 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 5 | 0.25 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 8 | 0.25 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 13 | 0.25 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 15 | 0.25 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 16 | 0.25 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 20 | 0.25 |
| (2,4725) | 1:50:A:GLU:H | 1:37:A:GLN:HB2 | 15 | 0.25 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 6 | 0.25 |
| (2,4713) | 1:141:A:LEU:H | 1:139:A:ARG:HG2 | 14 | 0.25 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 2 | 0.25 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 19 | 0.25 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 3 | 0.25 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 8 | 0.25 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 17 | 0.25 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 3 | 0.25 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 4 | 0.25 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 6 | 0.25 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 10 | 0.25 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 18 | 0.25 |
| (2,4688) | 1:159:A:ILE:HG12 | 1:136:A:GLN:H | 8 | 0.25 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 4 | 0.25 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 15 | 0.25 |
| (2,4662) | 1:153:A:SER:H | 1:153:A:SER:HB3 | 5 | 0.25 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 7 | 0.25 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 4 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 10 | 0.25 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 19 | 0.25 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 16 | 0.25 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 8 | 0.25 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 8 | 0.25 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 2 | 0.25 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 17 | 0.25 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 1 | 0.25 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 3 | 0.25 |
| (2,4534) | 1:149:A:ILE:HG23 | 1:150:A:ILE:HG13 | 2 | 0.25 |
| (2,4516) | 1:72:A:SER:HB3 | 1:75:A:GLU:H | 20 | 0.25 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD13 | 4 | 0.25 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 12 | 0.25 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 1 | 0.25 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 11 | 0.25 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 2 | 0.25 |
| (2,4413) | 1:10:A:ARG:HB3 | 1:10:A:ARG:HG2 | 14 | 0.25 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 4 | 0.25 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 5 | 0.25 |
| (2,4405) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 17 | 0.25 |
| (2,4401) | 1:9:A:ARG:HD3 | 1:9:A:ARG:HG2 | 17 | 0.25 |
| (2,4391) | 1:78:A:ARG:HG3 | 1:81:A:LEU:HD11 | 1 | 0.25 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 18 | 0.25 |
| (2,4340) | 1:144:A:PHE:HA | 1:145:A:LEU:HD13 | 20 | 0.25 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 5 | 0.25 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 10 | 0.25 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 12 | 0.25 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD3 | 16 | 0.25 |
| (2,4287) | 1:86:A:LYS:HE2 | 1:134:A:LEU:HD12 | 2 | 0.25 |
| (2,4267) | 1:52:A:ARG:HD3 | 1:33:A:VAL:HA | 11 | 0.25 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:145:A:LEU:HB2 | 14 | 0.25 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 7 | 0.25 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 12 | 0.25 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 15 | 0.25 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 12 | 0.25 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 18 | 0.25 |
| (2,4182) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD13 | 15 | 0.25 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 4 | 0.25 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:131:A:GLY:HA3 | 6 | 0.25 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:131:A:GLY:HA3 | 12 | 0.25 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 2 | 0.25 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 8 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 20 | 0.25 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 5 | 0.25 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 16 | 0.25 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 4 | 0.25 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 11 | 0.25 |
| (2,4122) | 1:33:A:VAL:HG12 | 1:144:A:PHE:HE1 | 12 | 0.25 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 12 | 0.25 |
| (2,4100) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB2 | 15 | 0.25 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 5 | 0.25 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 12 | 0.25 |
| (2,4058) | 1:29:A:LEU:HD13 | 1:31:A:ILE:HA | 9 | 0.25 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 2 | 0.25 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 6 | 0.25 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 11 | 0.25 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG3 | 7 | 0.25 |
| (2,3959) | 1:109:A:ILE:HD12 | 1:110:A:PHE:HE1 | 5 | 0.25 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 10 | 0.25 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 9 | 0.25 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD3 | 12 | 0.25 |
| (2,3869) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD21 | 8 | 0.25 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD13 | 12 | 0.25 |
| (2,3819) | 1:128:A:LYS:HD3 | 1:125:A:PHE:H | 7 | 0.25 |
| (2,3818) | 1:128:A:LYS:HE2 | 1:128:A:LYS:H | 19 | 0.25 |
| (2,3755) | 1:48:A:THR:HG22 | 1:68:A:ARG:HD3 | 1 | 0.25 |
| (2,3755) | 1:48:A:THR:HG22 | 1:68:A:ARG:HD2 | 10 | 0.25 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 12 | 0.25 |
| (2,3737) | 1:87:A:VAL:HA | 1:134:A:LEU:HG | 7 | 0.25 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 5 | 0.25 |
| (2,3708) | 1:92:A:LEU:HD13 | 1:78:A:ARG:H | 7 | 0.25 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 16 | 0.25 |
| (2,3703) | 1:92:A:LEU:HD11 | 1:78:A:ARG:HB2 | 8 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 8 | 0.25 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD12 | 9 | 0.25 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 19 | 0.25 |
| (2,3650) | 1:142:A:HIS:HA | 1:145:A:LEU:HD23 | 14 | 0.25 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 6 | 0.25 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 1 | 0.25 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 4 | 0.25 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 5 | 0.25 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB3 | 14 | 0.25 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 16 | 0.25 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 15 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 3 | 0.25 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 14 | 0.25 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 12 | 0.25 |
| (2,3328) | 1:158:A:LYS:HG2 | 1:158:A:LYS:H | 5 | 0.25 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 2 | 0.25 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 2 | 0.25 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 7 | 0.25 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG23 | 19 | 0.25 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 20 | 0.25 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 4 | 0.25 |
| (2,3037) | 1:12:A:ILE:HA | 1:13:A:THR:H | 2 | 0.25 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 8 | 0.25 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 15 | 0.25 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 1 | 0.25 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 2 | 0.25 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 11 | 0.25 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 16 | 0.25 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 14 | 0.25 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 18 | 0.25 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 19 | 0.25 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 15 | 0.25 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 20 | 0.25 |
| (2,2831) | 1:113:A:ASN:HB2 | 1:113:A:ASN:HD22 | 11 | 0.25 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 7 | 0.25 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 8 | 0.25 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 1 | 0.25 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 17 | 0.25 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 19 | 0.25 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 6 | 0.25 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 8 | 0.25 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 7 | 0.25 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 12 | 0.25 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 16 | 0.25 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 15 | 0.25 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 16 | 0.25 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 5 | 0.25 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 3 | 0.25 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 6 | 0.25 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 1 | 0.25 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 12 | 0.25 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 20 | 0.25 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 1 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2444) | 1:67:A:VAL:HG13 | 1:68:A:ARG:H | 1 | 0.25 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 5 | 0.25 |
| (2,2409) | 1:109:A:ILE:HG12 | 1:107:A:ASP:HB3 | 9 | 0.25 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 14 | 0.25 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 4 | 0.25 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 5 | 0.25 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 3 | 0.25 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 7 | 0.25 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 17 | 0.25 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 19 | 0.25 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 2 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 1 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 5 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 6 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 9 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 11 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 15 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 18 | 0.25 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 19 | 0.25 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 19 | 0.25 |
| (2,2142) | 1:31:A:ILE:HG23 | 1:33:A:VAL:HG11 | 1 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 7 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 8 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 9 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 10 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 11 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 14 | 0.25 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 18 | 0.25 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 10 | 0.25 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 16 | 0.25 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 19 | 0.25 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 5 | 0.25 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 1 | 0.25 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD13 | 6 | 0.25 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 16 | 0.25 |
| (2,2017) | 1:134:A:LEU:HD12 | 1:137:A:ASN:HB2 | 13 | 0.25 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG22 | 11 | 0.25 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 6 | 0.25 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD21 | 13 | 0.25 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 11 | 0.25 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 11 | 0.25 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 12 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 19 | 0.25 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 5 | 0.25 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 10 | 0.25 |
| (2,1756) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HB2 | 6 | 0.25 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 14 | 0.25 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 7 | 0.25 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 8 | 0.25 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 11 | 0.25 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE1 | 8 | 0.25 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 19 | 0.25 |
| (2,1585) | 1:141:A:LEU:HD12 | 1:141:A:LEU:H | 20 | 0.25 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 16 | 0.25 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 3 | 0.25 |
| (2,1525) | 1:57:A:LEU:HD12 | 1:29:A:LEU:HA | 9 | 0.25 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 19 | 0.25 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 8 | 0.25 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 17 | 0.25 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 19 | 0.25 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 11 | 0.25 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 16 | 0.25 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 6 | 0.25 |
| (2,1384) | 1:135:A:ALA:HB1 | 1:137:A:ASN:H | 13 | 0.25 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 15 | 0.25 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 18 | 0.25 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 20 | 0.25 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 14 | 0.25 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 8 | 0.25 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 16 | 0.25 |
| (2,1326) | 1:12:A:ILE:HG21 | 1:13:A:THR:HA | 12 | 0.25 |
| (2,1312) | 1:149:A:ILE:HG22 | 1:151:A:ASP:H | 14 | 0.25 |
| (2,1276) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HD2 | 17 | 0.25 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 6 | 0.25 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 13 | 0.25 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 1 | 0.25 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 3 | 0.25 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 8 | 0.25 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 9 | 0.25 |
| (2,1212) | 1:29:A:LEU:HD11 | 1:57:A:LEU:H | 15 | 0.25 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 10 | 0.25 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 13 | 0.25 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 19 | 0.25 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 20 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 3 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 10 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 11 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 14 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 15 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 16 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 17 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 18 | 0.25 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 20 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 2 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 4 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 7 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 12 | 0.25 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 15 | 0.25 |
| (2,1072) | 1:159:A:ILE:HD13 | 1:139:A:ARG:HD2 | 6 | 0.25 |
| (2,1057) | 1:159:A:ILE:HD12 | 1:159:A:ILE:H | 13 | 0.25 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 11 | 0.25 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 16 | 0.25 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 2 | 0.25 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 13 | 0.25 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 18 | 0.25 |
| (2,999) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HA | 9 | 0.25 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 5 | 0.25 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 4 | 0.25 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 15 | 0.25 |
| (2,982) | 1:12:A:ILE:HA | 1:12:A:ILE:HG13 | 15 | 0.25 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 15 | 0.25 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 16 | 0.25 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG23 | 20 | 0.25 |
| (2,877) | 1:115:A:ILE:HG23 | 1:47:A:THR:HG21 | 15 | 0.25 |
| (2,863) | 1:115:A:ILE:HD13 | 1:114:A:PHE:HB3 | 9 | 0.25 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 9 | 0.25 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 14 | 0.25 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 18 | 0.25 |
| (2,673) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 7 | 0.25 |
| (2,673) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 11 | 0.25 |
| (2,623) | 1:129:A:VAL:HG23 | 1:130:A:ALA:HB3 | 17 | 0.25 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 8 | 0.25 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 19 | 0.25 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 10 | 0.25 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 3 | 0.25 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 6 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,525) | 1:122:A:LEU:HD13 | 1:122:A:LEU:H | 4 | 0.25 |
| (2,479) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 2 | 0.25 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 1 | 0.25 |
| (2,455) | 1:48:A:THR:HG23 | 1:49:A:TYR:H | 15 | 0.25 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 7 | 0.25 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 7 | 0.25 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 11 | 0.25 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 12 | 0.25 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 13 | 0.25 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 18 | 0.25 |
| (2,372) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HB2 | 5 | 0.25 |
| (2,357) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HZ | 18 | 0.25 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 3 | 0.25 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 17 | 0.25 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 1 | 0.25 |
| (2,306) | 1:92:A:LEU:HD21 | 1:75:A:GLU:H | 12 | 0.25 |
| (2,248) | 1:150:A:ILE:HG22 | 1:144:A:PHE:HD1 | 8 | 0.25 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 3 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 1 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 2 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 3 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 5 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 6 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 7 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 9 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 13 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 15 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 16 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 17 | 0.25 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 20 | 0.25 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 2 | 0.25 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 4 | 0.25 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 18 | 0.25 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 20 | 0.25 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 4 | 0.24 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG21 | 20 | 0.24 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 11 | 0.24 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 20 | 0.24 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 17 | 0.24 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 5 | 0.24 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 12 | 0.24 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 1 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 3 | 0.24 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 7 | 0.24 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 13 | 0.24 |
| (2,4787) | 1:56:A:ASN:HD22 | 1:24:A:PRO:HG2 | 15 | 0.24 |
| (2,4786) | 1:56:A:ASN:HD21 | 1:58:A:PRO:HG3 | 4 | 0.24 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD2 | 18 | 0.24 |
| (2,4767) | 1:9:A:ARG:H | 1:9:A:ARG:HD3 | 6 | 0.24 |
| (2,4751) | 1:34:A:SER:H | 1:35:A:ASN:HB3 | 14 | 0.24 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 14 | 0.24 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 2 | 0.24 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 4 | 0.24 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 9 | 0.24 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 11 | 0.24 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 18 | 0.24 |
| (2,4713) | 1:143:A:MET:HE1 | 1:141:A:LEU:H | 18 | 0.24 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 17 | 0.24 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 5 | 0.24 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 9 | 0.24 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 7 | 0.24 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 19 | 0.24 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 4 | 0.24 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 17 | 0.24 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 1 | 0.24 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 2 | 0.24 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 8 | 0.24 |
| (2,4680) | 1:137:A:ASN:H | 1:134:A:LEU:HB3 | 2 | 0.24 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 3 | 0.24 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 1 | 0.24 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 1 | 0.24 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 12 | 0.24 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 13 | 0.24 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG3 | 20 | 0.24 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 7 | 0.24 |
| (2,4589) | 1:35:A:ASN:H | 1:36:A:PRO:HB3 | 20 | 0.24 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 2 | 0.24 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 19 | 0.24 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 4 | 0.24 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 19 | 0.24 |
| (2,4497) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HB2 | 20 | 0.24 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 13 | 0.24 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD12 | 9 | 0.24 |
| (2,4462) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HA | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 16 | 0.24 |
| (2,4454) | 1:31:A:ILE:HG22 | 1:52:A:ARG:HB2 | 20 | 0.24 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 12 | 0.24 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 9 | 0.24 |
| (2,4418) | 1:77:A:LEU:HD11 | 1:144:A:PHE:H | 14 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 1 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 7 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 9 | 0.24 |
| (2,4405) | 1:4:A:THR:HB | 1:4:A:THR:HG22 | 10 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 13 | 0.24 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 14 | 0.24 |
| (2,4405) | 1:4:A:THR:HB | 1:4:A:THR:HG23 | 20 | 0.24 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 4 | 0.24 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 16 | 0.24 |
| (2,4401) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 20 | 0.24 |
| (2,4398) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HD2 | 2 | 0.24 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 9 | 0.24 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 6 | 0.24 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 9 | 0.24 |
| (2,4288) | 1:10:A:ARG:HA | 1:10:A:ARG:HD3 | 4 | 0.24 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD13 | 12 | 0.24 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 1 | 0.24 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 3 | 0.24 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 15 | 0.24 |
| (2,4265) | 1:68:A:ARG:HD3 | 1:68:A:ARG:H | 12 | 0.24 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 7 | 0.24 |
| (2,4249) | 1:12:A:ILE:HD13 | 1:12:A:ILE:H | 5 | 0.24 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 14 | 0.24 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 19 | 0.24 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 8 | 0.24 |
| (2,4205) | 1:158:A:LYS:HD3 | 1:159:A:ILE:H | 19 | 0.24 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 10 | 0.24 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 13 | 0.24 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 6 | 0.24 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 5 | 0.24 |
| (2,4183) | 1:129:A:VAL:HG13 | 1:141:A:LEU:HD11 | 12 | 0.24 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 20 | 0.24 |
| (2,4151) | 1:57:A:LEU:HD23 | 1:131:A:GLY:HA3 | 7 | 0.24 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 4 | 0.24 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 2 | 0.24 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 9 | 0.24 |
| (2,4093) | 1:115:A:ILE:HG21 | 1:49:A:TYR:HD1 | 19 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 4 | 0.24 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 13 | 0.24 |
| (2,4058) | 1:29:A:LEU:HD12 | 1:31:A:ILE:HA | 1 | 0.24 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD21 | 19 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HB3 | 9 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 15 | 0.24 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD23 | 16 | 0.24 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 20 | 0.24 |
| (2,3989) | 1:26:A:SER:HB3 | 1:24:A:PRO:HB3 | 12 | 0.24 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 11 | 0.24 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 9 | 0.24 |
| (2,3959) | 1:109:A:ILE:HD11 | 1:110:A:PHE:HE1 | 3 | 0.24 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 6 | 0.24 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 15 | 0.24 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 16 | 0.24 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 2 | 0.24 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 10 | 0.24 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 1 | 0.24 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 2 | 0.24 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 3 | 0.24 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 4 | 0.24 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 20 | 0.24 |
| (2,3894) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HG2 | 4 | 0.24 |
| (2,3890) | 1:93:A:PRO:HG3 | 1:92:A:LEU:H | 20 | 0.24 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 3 | 0.24 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 10 | 0.24 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD13 | 19 | 0.24 |
| (2,3768) | 1:53:A:VAL:HG22 | 1:145:A:LEU:HB3 | 18 | 0.24 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG23 | 13 | 0.24 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 17 | 0.24 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 14 | 0.24 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 15 | 0.24 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 7 | 0.24 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HG3 | 9 | 0.24 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 5 | 0.24 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 2 | 0.24 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 8 | 0.24 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 9 | 0.24 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 15 | 0.24 |
| (2,3505) | 1:39:A:VAL:HG11 | 1:37:A:GLN:HE22 | 1 | 0.24 |
| (2,3505) | 1:39:A:VAL:HG12 | 1:37:A:GLN:HE22 | 10 | 0.24 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 5 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 9 | 0.24 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 11 | 0.24 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 14 | 0.24 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 16 | 0.24 |
| (2,3306) | 1:84:A:GLU:H | 1:85:A:SER:HB2 | 5 | 0.24 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 3 | 0.24 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 6 | 0.24 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 14 | 0.24 |
| (2,3249) | 1:62:A:LEU:H | 1:60:A:PHE:HD2 | 15 | 0.24 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 17 | 0.24 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD21 | 14 | 0.24 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 3 | 0.24 |
| (2,2995) | 1:4:A:THR:HA | 1:5:A:VAL:H | 3 | 0.24 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 2 | 0.24 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 7 | 0.24 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 18 | 0.24 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 10 | 0.24 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 15 | 0.24 |
| (2,2900) | 1:50:A:GLU:H | 1:68:A:ARG:HG2 | 7 | 0.24 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 8 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 1 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 2 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 5 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 6 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 12 | 0.24 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 13 | 0.24 |
| (2,2831) | 1:113:A:ASN:HB2 | 1:113:A:ASN:HD22 | 4 | 0.24 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 2 | 0.24 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 4 | 0.24 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 20 | 0.24 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 15 | 0.24 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 2 | 0.24 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 7 | 0.24 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 7 | 0.24 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 13 | 0.24 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 2 | 0.24 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 20 | 0.24 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 3 | 0.24 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 20 | 0.24 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 2 | 0.24 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 5 | 0.24 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 10 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 1 | 0.24 |
| (2,2581) | 1:98:A:LEU:HD22 | 1:99:A:ARG:H | 17 | 0.24 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 6 | 0.24 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 16 | 0.24 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 12 | 0.24 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 5 | 0.24 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 3 | 0.24 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 19 | 0.24 |
| (2,2378) | 1:90:A:PRO:HB3 | 1:89:A:VAL:HA | 3 | 0.24 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 15 | 0.24 |
| (2,2271) | 1:145:A:LEU:HD11 | 1:60:A:PHE:HZ | 6 | 0.24 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 2 | 0.24 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 16 | 0.24 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG21 | 1 | 0.24 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 14 | 0.24 |
| (2,2210) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HD2 | 1 | 0.24 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 1 | 0.24 |
| (2,2197) | 1:126:A:ILE:HD11 | 1:77:A:LEU:HD12 | 8 | 0.24 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 19 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 2 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 7 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 8 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 10 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 12 | 0.24 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG12 | 20 | 0.24 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 1 | 0.24 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 16 | 0.24 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 3 | 0.24 |
| (2,2149) | 1:33:A:VAL:HG12 | 1:32:A:ASP:H | 6 | 0.24 |
| (2,2110) | 1:22:A:TYR:HB3 | 1:22:A:TYR:HE2 | 3 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 1 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 3 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 5 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 6 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 7 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 8 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 9 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 12 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 13 | 0.24 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 14 | 0.24 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 7 | 0.24 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 9 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 13 | 0.24 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 16 | 0.24 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 17 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 4 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 5 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 8 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 13 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 18 | 0.24 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 19 | 0.24 |
| (2,2017) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HB2 | 7 | 0.24 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD23 | 3 | 0.24 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 8 | 0.24 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 14 | 0.24 |
| (2,1922) | 1:33:A:VAL:HG23 | 1:33:A:VAL:HA | 10 | 0.24 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 6 | 0.24 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 19 | 0.24 |
| (2,1898) | 1:115:A:ILE:HG23 | 1:116:A:GLU:HB2 | 18 | 0.24 |
| (2,1898) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HB2 | 20 | 0.24 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 1 | 0.24 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 4 | 0.24 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 20 | 0.24 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB1 | 8 | 0.24 |
| (2,1679) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG22 | 8 | 0.24 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 4 | 0.24 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG21 | 8 | 0.24 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 19 | 0.24 |
| (2,1663) | 1:-1:A:VAL:HA | 1:-1:A:VAL:HB | 5 | 0.24 |
| (2,1663) | 1:-1:A:VAL:HA | 1:-1:A:VAL:HB | 9 | 0.24 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 1 | 0.24 |
| (2,1618) | 1:50:A:GLU:HG3 | 1:67:A:VAL:HG23 | 3 | 0.24 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 20 | 0.24 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 14 | 0.24 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 4 | 0.24 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 1 | 0.24 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 5 | 0.24 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 7 | 0.24 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 10 | 0.24 |
| (2,1444) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HA | 20 | 0.24 |
| (2,1386) | 1:135:A:ALA:HB3 | 1:130:A:ALA:H | 13 | 0.24 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 11 | 0.24 |
| (2,1384) | 1:135:A:ALA:HB3 | 1:137:A:ASN:H | 12 | 0.24 |
| (2,1357) | 1:51:A:ILE:HG22 | 1:34:A:SER:H | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 19 | 0.24 |
| (2,1355) | 1:51:A:ILE:HG23 | 1:32:A:ASP:H | 14 | 0.24 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 4 | 0.24 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 6 | 0.24 |
| (2,1351) | 1:51:A:ILE:HG22 | 1:66:A:THR:HA | 10 | 0.24 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 3 | 0.24 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 19 | 0.24 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 20 | 0.24 |
| (2,1289) | 1:51:A:ILE:HD11 | 1:33:A:VAL:HA | 2 | 0.24 |
| (2,1289) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HA | 8 | 0.24 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE1 | 1 | 0.24 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 19 | 0.24 |
| (2,1257) | 1:150:A:ILE:HG21 | 1:152:A:LYS:HG2 | 20 | 0.24 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB1 | 2 | 0.24 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 2 | 0.24 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 17 | 0.24 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 19 | 0.24 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 3 | 0.24 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 19 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 1 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 3 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 4 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 5 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 7 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 8 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 11 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 14 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 15 | 0.24 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 16 | 0.24 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 9 | 0.24 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 6 | 0.24 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 5 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 8 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 11 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 14 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 17 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 18 | 0.24 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 20 | 0.24 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 6 | 0.24 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 3 | 0.24 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 12 | 0.24 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,999) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HA | 3 | 0.24 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 18 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 1 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 11 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 12 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 17 | 0.24 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 20 | 0.24 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 3 | 0.24 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 6 | 0.24 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 1 | 0.24 |
| (2,947) | 1:147:A:ASP:HB2 | 1:149:A:ILE:H | 7 | 0.24 |
| (2,947) | 1:147:A:ASP:HB2 | 1:149:A:ILE:H | 10 | 0.24 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 12 | 0.24 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 16 | 0.24 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 2 | 0.24 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 6 | 0.24 |
| (2,725) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HE22 | 7 | 0.24 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 6 | 0.24 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 8 | 0.24 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 20 | 0.24 |
| (2,628) | 1:129:A:VAL:HG12 | 1:77:A:LEU:HD11 | 5 | 0.24 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG23 | 1 | 0.24 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 13 | 0.24 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG23 | 17 | 0.24 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 18 | 0.24 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 2 | 0.24 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 7 | 0.24 |
| (2,596) | 1:129:A:VAL:HG13 | 1:128:A:LYS:H | 5 | 0.24 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 11 | 0.24 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 6 | 0.24 |
| (2,542) | 1:143:A:MET:HE2 | 1:154:A:TYR:HE1 | 7 | 0.24 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 11 | 0.24 |
| (2,539) | 1:143:A:MET:HE2 | 1:154:A:TYR:H | 15 | 0.24 |
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 13 | 0.24 |
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 18 | 0.24 |
| (2,519) | 1:122:A:LEU:HD12 | 1:74:A:PHE:HD2 | 14 | 0.24 |
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 20 | 0.24 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 6 | 0.24 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD13 | 20 | 0.24 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD13 | 17 | 0.24 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 9 | 0.24 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG22 | 19 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 12 | 0.24 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 3 | 0.24 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG21 | 8 | 0.24 |
| (2,231) | 1:151:A:ASP:HB2 | 1:150:A:ILE:HG22 | 7 | 0.24 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 4 | 0.24 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 11 | 0.24 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 18 | 0.24 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 19 | 0.24 |
| (2,150) | 1:66:A:THR:HG22 | 1:53:A:VAL:H | 6 | 0.24 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 18 | 0.24 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 11 | 0.23 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 3 | 0.23 |
| (2,4858) | 1:159:A:ILE:H | 1:138:A:GLU:HA | 6 | 0.23 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD1 | 6 | 0.23 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD13 | 12 | 0.23 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD13 | 15 | 0.23 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 4 | 0.23 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 8 | 0.23 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 10 | 0.23 |
| (2,4777) | 1:11:A:LEU:HD23 | 1:12:A:ILE:H | 1 | 0.23 |
| (2,4777) | 1:11:A:LEU:HD21 | 1:12:A:ILE:H | 19 | 0.23 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 9 | 0.23 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 7 | 0.23 |
| (2,4728) | 1:98:A:LEU:H | 1:98:A:LEU:HB3 | 17 | 0.23 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 6 | 0.23 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 4 | 0.23 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 16 | 0.23 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD23 | 5 | 0.23 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 4 | 0.23 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 6 | 0.23 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 11 | 0.23 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 13 | 0.23 |
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 3 | 0.23 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 19 | 0.23 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 13 | 0.23 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 6 | 0.23 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 15 | 0.23 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 17 | 0.23 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 19 | 0.23 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 10 | 0.23 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:118:A:ARG:HA | 18 | 0.23 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 19 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 17 | 0.23 |
| (2,4523) | 1:60:A:PHE:HB3 | 1:62:A:LEU:HB2 | 15 | 0.23 |
| (2,4503) | 1:82:A:GLU:HG2 | 1:85:A:SER:H | 4 | 0.23 |
| (2,4499) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD11 | 8 | 0.23 |
| (2,4465) | 1:61:A:LYS:HD3 | 1:62:A:LEU:HG | 19 | 0.23 |
| (2,4462) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HA | 9 | 0.23 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 2 | 0.23 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 18 | 0.23 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 20 | 0.23 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 10 | 0.23 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 14 | 0.23 |
| (2,4422) | 1:14:A:LYS:HB2 | 1:14:A:LYS:HG2 | 19 | 0.23 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 8 | 0.23 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 11 | 0.23 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG21 | 12 | 0.23 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 16 | 0.23 |
| (2,4401) | 1:9:A:ARG:HD2 | 1:9:A:ARG:HG3 | 6 | 0.23 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD12 | 3 | 0.23 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD13 | 17 | 0.23 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 13 | 0.23 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 4 | 0.23 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 13 | 0.23 |
| (2,4345) | 1:145:A:LEU:HD11 | 1:141:A:LEU:HB3 | 14 | 0.23 |
| (2,4335) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HB3 | 15 | 0.23 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 15 | 0.23 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 19 | 0.23 |
| (2,4314) | 1:100:A:GLN:HG3 | 1:101:A:LEU:HD13 | 12 | 0.23 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 7 | 0.23 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 11 | 0.23 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 18 | 0.23 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 9 | 0.23 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 14 | 0.23 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 3 | 0.23 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 10 | 0.23 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 13 | 0.23 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 2 | 0.23 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG22 | 16 | 0.23 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 15 | 0.23 |
| (2,4188) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HB3 | 7 | 0.23 |
| (2,4183) | 1:129:A:VAL:HG11 | 1:141:A:LEU:HD12 | 7 | 0.23 |
| (2,4179) | 1:141:A:LEU:HD13 | 1:60:A:PHE:HZ | 6 | 0.23 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 14 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4144) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE3 | 6 | 0.23 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG3 | 3 | 0.23 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 10 | 0.23 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 15 | 0.23 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 12 | 0.23 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 3 | 0.23 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 14 | 0.23 |
| (2,4082) | 1:126:A:ILE:HD13 | 1:129:A:VAL:H | 4 | 0.23 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 16 | 0.23 |
| (2,4060) | 1:29:A:LEU:HA | 1:56:A:ASN:H | 16 | 0.23 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 19 | 0.23 |
| (2,4058) | 1:29:A:LEU:HD12 | 1:31:A:ILE:HA | 3 | 0.23 |
| (2,4052) | 1:29:A:LEU:HD22 | 1:57:A:LEU:HG | 17 | 0.23 |
| (2,4022) | 1:11:A:LEU:HB3 | 1:11:A:LEU:HD23 | 1 | 0.23 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 19 | 0.23 |
| (2,4008) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HB3 | 7 | 0.23 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 5 | 0.23 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 20 | 0.23 |
| (2,3982) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HB2 | 6 | 0.23 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE1 | 2 | 0.23 |
| (2,3959) | 1:109:A:ILE:HD12 | 1:110:A:PHE:HE1 | 14 | 0.23 |
| (2,3958) | 1:109:A:ILE:HD13 | 1:107:A:ASP:H | 10 | 0.23 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:107:A:ASP:H | 16 | 0.23 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 18 | 0.23 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 1 | 0.23 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 16 | 0.23 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:120:A:GLN:HB3 | 3 | 0.23 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 12 | 0.23 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 18 | 0.23 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 17 | 0.23 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 3 | 0.23 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 4 | 0.23 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 10 | 0.23 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 5 | 0.23 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD12 | 7 | 0.23 |
| (2,3826) | 1:14:A:LYS:HE2 | 1:14:A:LYS:HG2 | 8 | 0.23 |
| (2,3826) | 1:128:A:LYS:HE3 | 1:128:A:LYS:HG3 | 13 | 0.23 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 19 | 0.23 |
| (2,3790) | 1:143:A:MET:HA | 1:143:A:MET:HG2 | 6 | 0.23 |
| (2,3768) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB3 | 2 | 0.23 |
| (2,3768) | 1:53:A:VAL:HG23 | 1:145:A:LEU:HB3 | 5 | 0.23 |
| (2,3763) | 1:53:A:VAL:HG21 | 1:64:A:GLU:HB3 | 3 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3755) | 1:48:A:THR:HG23 | 1:68:A:ARG:HD3 | 19 | 0.23 |
| (2,3740) | 1:87:A:VAL:HG21 | 1:86:A:LYS:H | 6 | 0.23 |
| (2,3740) | 1:87:A:VAL:HG23 | 1:86:A:LYS:H | 10 | 0.23 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 12 | 0.23 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 9 | 0.23 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 17 | 0.23 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 15 | 0.23 |
| (2,3691) | 1:150:A:ILE:HD13 | 1:143:A:MET:HB2 | 3 | 0.23 |
| (2,3690) | 1:150:A:ILE:HD12 | 1:143:A:MET:HG3 | 12 | 0.23 |
| (2,3684) | 1:155:A:THR:HG23 | 1:156:A:PRO:HD2 | 10 | 0.23 |
| (2,3662) | 1:64:A:GLU:HA | 1:54:A:LYS:HB2 | 15 | 0.23 |
| (2,3630) | 1:84:A:GLU:HA | 1:84:A:GLU:HB2 | 4 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 1 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 3 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 4 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 5 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 7 | 0.23 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 10 | 0.23 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 15 | 0.23 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG21 | 4 | 0.23 |
| (2,3560) | 1:122:A:LEU:HD12 | 1:121:A:GLY:H | 19 | 0.23 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 11 | 0.23 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 5 | 0.23 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 20 | 0.23 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 9 | 0.23 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 19 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 1 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 3 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 8 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 10 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 13 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 15 | 0.23 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 19 | 0.23 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 13 | 0.23 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 20 | 0.23 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 7 | 0.23 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 7 | 0.23 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 6 | 0.23 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 8 | 0.23 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 9 | 0.23 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 3 | 0.23 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 11 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 13 | 0.23 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 4 | 0.23 |
| (2,2938) | 1:4:A:THR:HG23 | 1:5:A:VAL:H | 19 | 0.23 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD1 | 7 | 0.23 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE2 | 6 | 0.23 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD2 | 16 | 0.23 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD2 | 19 | 0.23 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 10 | 0.23 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 7 | 0.23 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 17 | 0.23 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 18 | 0.23 |
| (2,2832) | 1:113:A:ASN:HB3 | 1:113:A:ASN:HD22 | 19 | 0.23 |
| (2,2805) | 1:126:A:ILE:HD13 | 1:130:A:ALA:H | 5 | 0.23 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 9 | 0.23 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 12 | 0.23 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 15 | 0.23 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 15 | 0.23 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 15 | 0.23 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 11 | 0.23 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 18 | 0.23 |
| (2,2641) | 1:0:A:GLY:H | 1:-1:A:VAL:HB | 7 | 0.23 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 8 | 0.23 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 20 | 0.23 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 11 | 0.23 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 18 | 0.23 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 8 | 0.23 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 20 | 0.23 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 4 | 0.23 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 2 | 0.23 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 4 | 0.23 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 9 | 0.23 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 6 | 0.23 |
| (2,2312) | 1:77:A:LEU:HD23 | 1:144:A:PHE:HZ | 17 | 0.23 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 10 | 0.23 |
| (2,2298) | 1:18:A:LEU:HD21 | 1:17:A:ASN:H | 6 | 0.23 |
| (2,2271) | 1:145:A:LEU:HD13 | 1:60:A:PHE:HZ | 9 | 0.23 |
| (2,2271) | 1:145:A:LEU:HD11 | 1:60:A:PHE:HZ | 12 | 0.23 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 1 | 0.23 |
| (2,2232) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HD1 | 20 | 0.23 |
| (2,2229) | 1:82:A:GLU:HB3 | 1:89:A:VAL:HG21 | 12 | 0.23 |
| (2,2210) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HD2 | 4 | 0.23 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 8 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG13 | 4 | 0.23 |
| (2,2162) | 1:41:A:VAL:HB | 1:41:A:VAL:HG11 | 13 | 0.23 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 13 | 0.23 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 18 | 0.23 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG22 | 18 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 2 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 4 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 11 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 15 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD23 | 17 | 0.23 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD21 | 18 | 0.23 |
| (2,2095) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 1 | 0.23 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 12 | 0.23 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 19 | 0.23 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 17 | 0.23 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 11 | 0.23 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 14 | 0.23 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 15 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 3 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 12 | 0.23 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD13 | 15 | 0.23 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD23 | 11 | 0.23 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 7 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 2 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 5 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 7 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 8 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 9 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 13 | 0.23 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 18 | 0.23 |
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 3 | 0.23 |
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 10 | 0.23 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 6 | 0.23 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 9 | 0.23 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 12 | 0.23 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 16 | 0.23 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 13 | 0.23 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 13 | 0.23 |
| (2,1700) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HD2 | 20 | 0.23 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 12 | 0.23 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 13 | 0.23 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 20 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD13 | 14 | 0.23 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 10 | 0.23 |
| (2,1566) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 5 | 0.23 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 2 | 0.23 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 1 | 0.23 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 15 | 0.23 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 8 | 0.23 |
| (2,1499) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD3 | 2 | 0.23 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 18 | 0.23 |
| (2,1489) | 1:29:A:LEU:HD12 | 1:55:A:THR:HA | 18 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 3 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 6 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 8 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 9 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 11 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 13 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 14 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 15 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 16 | 0.23 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 18 | 0.23 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 1 | 0.23 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 5 | 0.23 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 7 | 0.23 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 1 | 0.23 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 3 | 0.23 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 5 | 0.23 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 7 | 0.23 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 10 | 0.23 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 20 | 0.23 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 2 | 0.23 |
| (2,1357) | 1:51:A:ILE:HG21 | 1:34:A:SER:H | 5 | 0.23 |
| (2,1351) | 1:51:A:ILE:HG22 | 1:66:A:THR:HA | 15 | 0.23 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 7 | 0.23 |
| (2,1294) | 1:51:A:ILE:HD12 | 1:67:A:VAL:HG21 | 4 | 0.23 |
| (2,1257) | 1:150:A:ILE:HG23 | 1:152:A:LYS:HG2 | 17 | 0.23 |
| (2,1212) | 1:29:A:LEU:HD11 | 1:57:A:LEU:H | 5 | 0.23 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 18 | 0.23 |
| (2,1147) | 1:122:A:LEU:HD12 | 1:93:A:PRO:HB3 | 10 | 0.23 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 5 | 0.23 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 11 | 0.23 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 20 | 0.23 |
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 10 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1103) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HB3 | 16 | 0.23 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 12 | 0.23 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 2 | 0.23 |
| (2,1096) | 1:11:A:LEU:HA | 1:11:A:LEU:HB3 | 13 | 0.23 |
| (2,1089) | 1:139:A:ARG:HD3 | 1:143:A:MET:H | 6 | 0.23 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 19 | 0.23 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 7 | 0.23 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 19 | 0.23 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 4 | 0.23 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 8 | 0.23 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 11 | 0.23 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 6 | 0.23 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 15 | 0.23 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 17 | 0.23 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 16 | 0.23 |
| (2,938) | 1:109:A:ILE:HG13 | 1:109:A:ILE:HG22 | 8 | 0.23 |
| (2,763) | 1:36:A:PRO:HG3 | 1:115:A:ILE:HD13 | 19 | 0.23 |
| (2,755) | 1:122:A:LEU:HD21 | 1:122:A:LEU:HA | 7 | 0.23 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 8 | 0.23 |
| (2,755) | 1:122:A:LEU:HD23 | 1:122:A:LEU:HA | 13 | 0.23 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 1 | 0.23 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 13 | 0.23 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 15 | 0.23 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 6 | 0.23 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 15 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 2 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG23 | 3 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 7 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 14 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 19 | 0.23 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 20 | 0.23 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 12 | 0.23 |
| (2,596) | 1:129:A:VAL:HG13 | 1:128:A:LYS:H | 4 | 0.23 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 13 | 0.23 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 14 | 0.23 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 19 | 0.23 |
| (2,568) | 1:143:A:MET:HG2 | 1:150:A:ILE:HA | 9 | 0.23 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 10 | 0.23 |
| (2,521) | 1:122:A:LEU:HD13 | 1:49:A:TYR:HD1 | 1 | 0.23 |
| (2,465) | 1:47:A:THR:HG23 | 1:114:A:PHE:HE2 | 11 | 0.23 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 18 | 0.23 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 6 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,413) | 1:87:A:VAL:HG23 | 1:134:A:LEU:H | 15 | 0.23 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 20 | 0.23 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 1 | 0.23 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 18 | 0.23 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE3 | 15 | 0.23 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 1 | 0.23 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 14 | 0.23 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 11 | 0.23 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 11 | 0.22 |
| (2,4961) | 1:112:A:ASP:H | 1:115:A:ILE:HB | 13 | 0.22 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 7 | 0.22 |
| (2,4862) | 1:158:A:LYS:H | 1:139:A:ARG:HB2 | 17 | 0.22 |
| (2,4851) | 1:89:A:VAL:H | 1:82:A:GLU:H | 6 | 0.22 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 4 | 0.22 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 7 | 0.22 |
| (2,4807) | 1:57:A:LEU:H | 1:59:A:ILE:H | 4 | 0.22 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 9 | 0.22 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 14 | 0.22 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 13 | 0.22 |
| (2,4727) | 1:33:A:VAL:HG22 | 1:50:A:GLU:H | 20 | 0.22 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 18 | 0.22 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 12 | 0.22 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE2 | 4 | 0.22 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 8 | 0.22 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 13 | 0.22 |
| (2,4704) | 1:77:A:LEU:HD21 | 1:78:A:ARG:H | 16 | 0.22 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 11 | 0.22 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 19 | 0.22 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 13 | 0.22 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 19 | 0.22 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 9 | 0.22 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 12 | 0.22 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 13 | 0.22 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 17 | 0.22 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 20 | 0.22 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 2 | 0.22 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 5 | 0.22 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 4 | 0.22 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 6 | 0.22 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 5 | 0.22 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 12 | 0.22 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 15 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4596) | 1:62:A:LEU:HB2 | 1:63:A:LYS:H | 11 | 0.22 |
| (2,4594) | 1:19:A:ASN:H | 1:18:A:LEU:HB3 | 16 | 0.22 |
| (2,4592) | 1:20:A:ASP:HB2 | 1:21:A:ALA:H | 11 | 0.22 |
| (2,4581) | 1:106:A:ASP:HB3 | 1:105:A:GLY:HA2 | 8 | 0.22 |
| (2,4581) | 1:106:A:ASP:HB3 | 1:105:A:GLY:HA2 | 9 | 0.22 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 1 | 0.22 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 4 | 0.22 |
| (2,4575) | 1:101:A:LEU:HD12 | 1:98:A:LEU:HA | 9 | 0.22 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 18 | 0.22 |
| (2,4544) | 1:85:A:SER:HB3 | 1:86:A:LYS:HG3 | 5 | 0.22 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 19 | 0.22 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 5 | 0.22 |
| (2,4533) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HB2 | 8 | 0.22 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 1 | 0.22 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 13 | 0.22 |
| (2,4526) | 1:113:A:ASN:HB3 | 1:101:A:LEU:HD21 | 18 | 0.22 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD12 | 10 | 0.22 |
| (2,4475) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD11 | 14 | 0.22 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 17 | 0.22 |
| (2,4460) | 1:61:A:LYS:HB2 | 1:61:A:LYS:HE2 | 10 | 0.22 |
| (2,4424) | 1:61:A:LYS:HD3 | 1:62:A:LEU:H | 4 | 0.22 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 5 | 0.22 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG23 | 18 | 0.22 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD12 | 5 | 0.22 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 9 | 0.22 |
| (2,4351) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 16 | 0.22 |
| (2,4319) | 1:115:A:ILE:HG22 | 1:118:A:ARG:HB3 | 11 | 0.22 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 17 | 0.22 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 17 | 0.22 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 1 | 0.22 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 13 | 0.22 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 18 | 0.22 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 7 | 0.22 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 17 | 0.22 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 5 | 0.22 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 12 | 0.22 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 11 | 0.22 |
| (2,4259) | 1:63:A:LYS:HD2 | 1:63:A:LYS:HE2 | 5 | 0.22 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 4 | 0.22 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 10 | 0.22 |
| (2,4156) | 1:57:A:LEU:HG | 1:55:A:THR:HG21 | 9 | 0.22 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 14 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4139) | 1:137:A:ASN:HB3 | 1:59:A:ILE:HD12 | 5 | 0.22 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 2 | 0.22 |
| (2,4133) | 1:133:A:PRO:HG2 | 1:132:A:HIS:HE1 | 3 | 0.22 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 7 | 0.22 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 13 | 0.22 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 20 | 0.22 |
| (2,4110) | 1:96:A:ALA:HB1 | 1:97:A:PHE:HB3 | 3 | 0.22 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 14 | 0.22 |
| (2,4110) | 1:96:A:ALA:HB2 | 1:97:A:PHE:HB3 | 16 | 0.22 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 20 | 0.22 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 16 | 0.22 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 9 | 0.22 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 20 | 0.22 |
| (2,4026) | 1:152:A:LYS:HE2 | 1:76:A:TRP:H | 15 | 0.22 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD21 | 7 | 0.22 |
| (2,4007) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HB3 | 13 | 0.22 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 19 | 0.22 |
| (2,3989) | 1:26:A:SER:HB2 | 1:24:A:PRO:HB3 | 16 | 0.22 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 5 | 0.22 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 13 | 0.22 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 16 | 0.22 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 18 | 0.22 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 1 | 0.22 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 16 | 0.22 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 16 | 0.22 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 2 | 0.22 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 19 | 0.22 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 13 | 0.22 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 2 | 0.22 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 13 | 0.22 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 15 | 0.22 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 16 | 0.22 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 1 | 0.22 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 18 | 0.22 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 20 | 0.22 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 2 | 0.22 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 3 | 0.22 |
| (2,3782) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 9 | 0.22 |
| (2,3764) | 1:53:A:VAL:HG22 | 1:30:A:GLU:HG3 | 9 | 0.22 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 19 | 0.22 |
| (2,3757) | 1:47:A:THR:HG23 | 1:115:A:ILE:HA | 10 | 0.22 |
| (2,3757) | 1:47:A:THR:HG21 | 1:115:A:ILE:HA | 12 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3755) | 1:48:A:THR:HG23 | 1:68:A:ARG:HD3 | 13 | 0.22 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 6 | 0.22 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 18 | 0.22 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 15 | 0.22 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 13 | 0.22 |
| (2,3705) | 1:92:A:LEU:HG | 1:93:A:PRO:HD3 | 11 | 0.22 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 2 | 0.22 |
| (2,3702) | 1:92:A:LEU:HD21 | 1:75:A:GLU:HG2 | 6 | 0.22 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 19 | 0.22 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 11 | 0.22 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 14 | 0.22 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 2 | 0.22 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 3 | 0.22 |
| (2,3582) | 1:12:A:ILE:HG13 | 1:11:A:LEU:H | 7 | 0.22 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 2 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 2 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 4 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 6 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 7 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 12 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 17 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 18 | 0.22 |
| (2,3465) | 1:136:A:GLN:HE22 | 1:136:A:GLN:HE21 | 20 | 0.22 |
| (2,3342) | 1:107:A:ASP:HB3 | 1:107:A:ASP:H | 14 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 1 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 5 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 14 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 16 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 17 | 0.22 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 18 | 0.22 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 11 | 0.22 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 5 | 0.22 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 4 | 0.22 |
| (2,3253) | 1:55:A:THR:HG23 | 1:64:A:GLU:H | 15 | 0.22 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 11 | 0.22 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 18 | 0.22 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 1 | 0.22 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 12 | 0.22 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 4 | 0.22 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 6 | 0.22 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 14 | 0.22 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 3 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 17 | 0.22 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD1 | 4 | 0.22 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 5 | 0.22 |
| (2,2910) | 1:97:A:PHE:HB3 | 1:98:A:LEU:H | 9 | 0.22 |
| (2,2831) | 1:113:A:ASN:HB2 | 1:113:A:ASN:HD22 | 3 | 0.22 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 6 | 0.22 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 7 | 0.22 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 8 | 0.22 |
| (2,2805) | 1:126:A:ILE:HD13 | 1:130:A:ALA:H | 18 | 0.22 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 11 | 0.22 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 14 | 0.22 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD12 | 1 | 0.22 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 2 | 0.22 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 5 | 0.22 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 14 | 0.22 |
| (2,2570) | 1:96:A:ALA:H | 1:95:A:LYS:HG3 | 17 | 0.22 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 6 | 0.22 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 17 | 0.22 |
| (2,2508) | 1:79:A:SER:H | 1:125:A:PHE:HE1 | 18 | 0.22 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 4 | 0.22 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 8 | 0.22 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 2 | 0.22 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 5 | 0.22 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 16 | 0.22 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 8 | 0.22 |
| (2,2319) | 1:78:A:ARG:HD3 | 1:125:A:PHE:HZ | 9 | 0.22 |
| (2,2298) | 1:18:A:LEU:HD23 | 1:17:A:ASN:H | 1 | 0.22 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 12 | 0.22 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 15 | 0.22 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 11 | 0.22 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 4 | 0.22 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 6 | 0.22 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 12 | 0.22 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 13 | 0.22 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 9 | 0.22 |
| (2,2149) | 1:33:A:VAL:HG13 | 1:32:A:ASP:H | 5 | 0.22 |
| (2,2096) | 1:11:A:LEU:HG | 1:11:A:LEU:HD22 | 20 | 0.22 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 13 | 0.22 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 2 | 0.22 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 4 | 0.22 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 5 | 0.22 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 8 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 12 | 0.22 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 9 | 0.22 |
| (2,1965) | 1:149:A:ILE:HD13 | 1:150:A:ILE:HA | 2 | 0.22 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD21 | 5 | 0.22 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 4 | 0.22 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 4 | 0.22 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 1 | 0.22 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 2 | 0.22 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 3 | 0.22 |
| (2,1793) | 1:83:A:ARG:HD3 | 1:83:A:ARG:HA | 6 | 0.22 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 8 | 0.22 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 4 | 0.22 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 15 | 0.22 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 5 | 0.22 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 14 | 0.22 |
| (2,1663) | 1:-1:A:VAL:HA | 1:-1:A:VAL:HB | 7 | 0.22 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 2 | 0.22 |
| (2,1590) | 1:129:A:VAL:HG23 | 1:141:A:LEU:HD13 | 15 | 0.22 |
| (2,1583) | 1:141:A:LEU:HD13 | 1:138:A:GLU:H | 11 | 0.22 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 6 | 0.22 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 10 | 0.22 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 17 | 0.22 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 10 | 0.22 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 20 | 0.22 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 20 | 0.22 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 20 | 0.22 |
| (2,1499) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD3 | 1 | 0.22 |
| (2,1499) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD3 | 10 | 0.22 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 2 | 0.22 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 4 | 0.22 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 12 | 0.22 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 19 | 0.22 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 19 | 0.22 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 14 | 0.22 |
| (2,1406) | 1:39:A:VAL:HG21 | 1:39:A:VAL:HA | 14 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 6 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 8 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 11 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 14 | 0.22 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 15 | 0.22 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 2 | 0.22 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 9 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 11 | 0.22 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 17 | 0.22 |
| (2,1339) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HD3 | 2 | 0.22 |
| (2,1326) | 1:12:A:ILE:HG21 | 1:13:A:THR:HA | 1 | 0.22 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 10 | 0.22 |
| (2,1312) | 1:149:A:ILE:HG23 | 1:151:A:ASP:H | 8 | 0.22 |
| (2,1310) | 1:149:A:ILE:HG23 | 1:148:A:GLU:H | 10 | 0.22 |
| (2,1290) | 1:51:A:ILE:HD12 | 1:49:A:TYR:HB3 | 5 | 0.22 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 16 | 0.22 |
| (2,1233) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 7 | 0.22 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 13 | 0.22 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 16 | 0.22 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD12 | 16 | 0.22 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG22 | 8 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 1 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 2 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 4 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 6 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 7 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 8 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 9 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 10 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 11 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 12 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 13 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 17 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 18 | 0.22 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 19 | 0.22 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 6 | 0.22 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 2 | 0.22 |
| (2,1115) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 6 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 7 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 10 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 15 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 17 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 18 | 0.22 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 19 | 0.22 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 19 | 0.22 |
| (2,1085) | 1:139:A:ARG:HD3 | 1:161:A:HIS:HD2 | 3 | 0.22 |
| (2,1072) | 1:159:A:ILE:HD12 | 1:139:A:ARG:HD2 | 17 | 0.22 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 7 | 0.22 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 16 | 0.22 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD13 | 19 | 0.22 |
| (2,995) | 1:101:A:LEU:HD21 | 1:101:A:LEU:H | 18 | 0.22 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 3 | 0.22 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 8 | 0.22 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD21 | 14 | 0.22 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 16 | 0.22 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 14 | 0.22 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 20 | 0.22 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 7 | 0.22 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 15 | 0.22 |
| (2,941) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 5 | 0.22 |
| (2,926) | 1:109:A:ILE:HD11 | 1:45:A:ARG:HB3 | 1 | 0.22 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 15 | 0.22 |
| (2,863) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HB3 | 18 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 2 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 4 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 12 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 17 | 0.22 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 18 | 0.22 |
| (2,755) | 1:122:A:LEU:HD23 | 1:122:A:LEU:HA | 19 | 0.22 |
| (2,753) | 1:122:A:LEU:HD23 | 1:33:A:VAL:HG22 | 10 | 0.22 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 1 | 0.22 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG21 | 2 | 0.22 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 7 | 0.22 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 11 | 0.22 |
| (2,673) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 10 | 0.22 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 1 | 0.22 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 9 | 0.22 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 12 | 0.22 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 19 | 0.22 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB2 | 9 | 0.22 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB1 | 13 | 0.22 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG21 | 12 | 0.22 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG23 | 19 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 5 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 6 | 0.22 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 12 | 0.22 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 9 | 0.22 |
| (2,608) | 1:129:A:VAL:HG11 | 1:126:A:ILE:HA | 18 | 0.22 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 15 | 0.22 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 13 | 0.22 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 4 | 0.22 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 11 | 0.22 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 7 | 0.22 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 18 | 0.22 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 3 | 0.22 |
| (2,428) | 1:13:A:THR:HG21 | 1:12:A:ILE:H | 3 | 0.22 |
| (2,413) | 1:87:A:VAL:HG22 | 1:134:A:LEU:H | 17 | 0.22 |
| (2,413) | 1:87:A:VAL:HG21 | 1:134:A:LEU:H | 18 | 0.22 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 2 | 0.22 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD11 | 9 | 0.22 |
| (2,407) | 1:87:A:VAL:HB | 1:81:A:LEU:HD12 | 17 | 0.22 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD13 | 7 | 0.22 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 18 | 0.22 |
| (2,366) | 1:89:A:VAL:HG12 | 1:82:A:GLU:HG2 | 1 | 0.22 |
| (2,362) | 1:89:A:VAL:HG21 | 1:87:A:VAL:H | 20 | 0.22 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 3 | 0.22 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD1 | 19 | 0.22 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 14 | 0.22 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 10 | 0.22 |
| (2,224) | 1:155:A:THR:HG21 | 1:139:A:ARG:HG2 | 10 | 0.22 |
| (2,151) | 1:66:A:THR:HG23 | 1:50:A:GLU:H | 6 | 0.22 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG22 | 19 | 0.22 |
| (2,4961) | 1:112:A:ASP:H | 1:115:A:ILE:HB | 15 | 0.21 |
| (2,4945) | 1:77:A:LEU:HD23 | 1:142:A:HIS:H | 19 | 0.21 |
| (2,4909) | 1:127:A:ASN:H | 1:123:A:GLU:HG3 | 16 | 0.21 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 8 | 0.21 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE3 | 17 | 0.21 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 2 | 0.21 |
| (2,4832) | 1:54:A:LYS:HE2 | 1:64:A:GLU:H | 18 | 0.21 |
| (2,4821) | 1:51:A:ILE:H | 1:68:A:ARG:HG2 | 17 | 0.21 |
| (2,4755) | 1:0:A:GLY:HA2 | 1:1:A:THR:H | 14 | 0.21 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE2 | 3 | 0.21 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 9 | 0.21 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 14 | 0.21 |
| (2,4704) | 1:77:A:LEU:HD23 | 1:78:A:ARG:H | 7 | 0.21 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 2 | 0.21 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 14 | 0.21 |
| (2,4701) | 1:44:A:GLY:H | 1:110:A:PHE:HE1 | 15 | 0.21 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 15 | 0.21 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 11 | 0.21 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 8 | 0.21 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 9 | 0.21 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE3 | 5 | 0.21 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 13 | 0.21 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 7 | 0.21 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD22 | 5 | 0.21 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 13 | 0.21 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG23 | 7 | 0.21 |
| (2,4577) | 1:51:A:ILE:HG12 | 1:67:A:VAL:HG22 | 18 | 0.21 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 8 | 0.21 |
| (2,4575) | 1:101:A:LEU:HD13 | 1:98:A:LEU:HA | 11 | 0.21 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 14 | 0.21 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 16 | 0.21 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 20 | 0.21 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 20 | 0.21 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:118:A:ARG:HA | 8 | 0.21 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 17 | 0.21 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 6 | 0.21 |
| (2,4541) | 1:146:A:GLN:HG3 | 1:143:A:MET:HA | 13 | 0.21 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 3 | 0.21 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 6 | 0.21 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 7 | 0.21 |
| (2,4521) | 1:77:A:LEU:HD22 | 1:141:A:LEU:H | 7 | 0.21 |
| (2,4521) | 1:77:A:LEU:HD23 | 1:141:A:LEU:H | 16 | 0.21 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD11 | 12 | 0.21 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB2 | 9 | 0.21 |
| (2,4462) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HA | 8 | 0.21 |
| (2,4454) | 1:52:A:ARG:HB2 | 1:51:A:ILE:HG23 | 18 | 0.21 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 3 | 0.21 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 1 | 0.21 |
| (2,4357) | 1:157:A:SER:HB3 | 1:139:A:ARG:HD3 | 20 | 0.21 |
| (2,4310) | 1:10:A:ARG:HG2 | 1:10:A:ARG:HD2 | 12 | 0.21 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 4 | 0.21 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 20 | 0.21 |
| (2,4290) | 1:54:A:LYS:HE2 | 1:64:A:GLU:HB2 | 18 | 0.21 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 17 | 0.21 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 7 | 0.21 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 11 | 0.21 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 11 | 0.21 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 17 | 0.21 |
| (2,4234) | 1:35:A:ASN:HB3 | 1:36:A:PRO:HD2 | 14 | 0.21 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 2 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 8 | 0.21 |
| (2,4192) | 1:50:A:GLU:HG2 | 1:52:A:ARG:HD2 | 20 | 0.21 |
| (2,4182) | 1:141:A:LEU:HD13 | 1:143:A:MET:HG2 | 12 | 0.21 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 2 | 0.21 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 7 | 0.21 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 9 | 0.21 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 5 | 0.21 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 6 | 0.21 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 14 | 0.21 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 14 | 0.21 |
| (2,4102) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HB | 18 | 0.21 |
| (2,4100) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB2 | 20 | 0.21 |
| (2,4098) | 1:59:A:ILE:HG23 | 1:60:A:PHE:HB3 | 1 | 0.21 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 16 | 0.21 |
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 4 | 0.21 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 2 | 0.21 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 15 | 0.21 |
| (2,4042) | 1:45:A:ARG:HD2 | 1:41:A:VAL:HA | 2 | 0.21 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 3 | 0.21 |
| (2,4018) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HB3 | 14 | 0.21 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 1 | 0.21 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 12 | 0.21 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 13 | 0.21 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 16 | 0.21 |
| (2,3974) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB3 | 3 | 0.21 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 15 | 0.21 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 20 | 0.21 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 9 | 0.21 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 15 | 0.21 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 17 | 0.21 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 18 | 0.21 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 20 | 0.21 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 7 | 0.21 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 9 | 0.21 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 10 | 0.21 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 11 | 0.21 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 18 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 1 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 3 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 4 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 5 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 6 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 7 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 10 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 11 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 12 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 14 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 17 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 18 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 19 | 0.21 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 20 | 0.21 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 8 | 0.21 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 11 | 0.21 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 15 | 0.21 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 4 | 0.21 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 13 | 0.21 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 16 | 0.21 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 6 | 0.21 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG22 | 3 | 0.21 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 14 | 0.21 |
| (2,3768) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB3 | 4 | 0.21 |
| (2,3747) | 1:0:A:GLY:HA3 | 1:-1:A:VAL:HG22 | 12 | 0.21 |
| (2,3744) | 1:87:A:VAL:HG22 | 1:84:A:GLU:HB2 | 20 | 0.21 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 20 | 0.21 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 7 | 0.21 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 16 | 0.21 |
| (2,3728) | 1:89:A:VAL:HG13 | 1:78:A:ARG:HG2 | 19 | 0.21 |
| (2,3718) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB2 | 6 | 0.21 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 6 | 0.21 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 5 | 0.21 |
| (2,3702) | 1:92:A:LEU:HD22 | 1:75:A:GLU:HG2 | 10 | 0.21 |
| (2,3691) | 1:150:A:ILE:HD13 | 1:143:A:MET:HB2 | 7 | 0.21 |
| (2,3690) | 1:150:A:ILE:HD13 | 1:143:A:MET:HG3 | 10 | 0.21 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 5 | 0.21 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 8 | 0.21 |
| (2,3630) | 1:3:A:GLU:HA | 1:3:A:GLU:HG3 | 11 | 0.21 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 17 | 0.21 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 7 | 0.21 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 11 | 0.21 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 8 | 0.21 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 2 | 0.21 |
| (2,3338) | 1:105:A:GLY:HA3 | 1:106:A:ASP:H | 11 | 0.21 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 7 | 0.21 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD2 | 12 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 11 | 0.21 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 14 | 0.21 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 1 | 0.21 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 7 | 0.21 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 3 | 0.21 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 5 | 0.21 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 10 | 0.21 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 16 | 0.21 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD21 | 18 | 0.21 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 11 | 0.21 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 1 | 0.21 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 17 | 0.21 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 12 | 0.21 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 8 | 0.21 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 9 | 0.21 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 14 | 0.21 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 20 | 0.21 |
| (2,2982) | 1:4:A:THR:HG22 | 1:4:A:THR:H | 16 | 0.21 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 5 | 0.21 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 14 | 0.21 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 10 | 0.21 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 1 | 0.21 |
| (2,2938) | 1:4:A:THR:HG21 | 1:5:A:VAL:H | 2 | 0.21 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD2 | 1 | 0.21 |
| (2,2915) | 1:37:A:GLN:H | 1:49:A:TYR:HD1 | 10 | 0.21 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE2 | 1 | 0.21 |
| (2,2890) | 1:50:A:GLU:H | 1:49:A:TYR:HE1 | 20 | 0.21 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD1 | 14 | 0.21 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 16 | 0.21 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 3 | 0.21 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 16 | 0.21 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 11 | 0.21 |
| (2,2725) | 1:19:A:ASN:HB2 | 1:19:A:ASN:HD22 | 5 | 0.21 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 1 | 0.21 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 6 | 0.21 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 14 | 0.21 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD21 | 3 | 0.21 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 15 | 0.21 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 10 | 0.21 |
| (2,2530) | 1:83:A:ARG:HG3 | 1:83:A:ARG:H | 8 | 0.21 |
| (2,2530) | 1:83:A:ARG:HG3 | 1:83:A:ARG:H | 10 | 0.21 |
| (2,2524) | 1:83:A:ARG:HB2 | 1:83:A:ARG:H | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 8 | 0.21 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 16 | 0.21 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 13 | 0.21 |
| (2,2389) | 1:107:A:ASP:HB3 | 1:109:A:ILE:H | 9 | 0.21 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 18 | 0.21 |
| (2,2321) | 1:81:A:LEU:HD21 | 1:87:A:VAL:HB | 15 | 0.21 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG21 | 14 | 0.21 |
| (2,2288) | 1:162:A:ALA:HB2 | 1:161:A:HIS:HB2 | 17 | 0.21 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD13 | 4 | 0.21 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 6 | 0.21 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 11 | 0.21 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 19 | 0.21 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 9 | 0.21 |
| (2,2210) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HD2 | 14 | 0.21 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 18 | 0.21 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 9 | 0.21 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 17 | 0.21 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 3 | 0.21 |
| (2,2094) | 1:98:A:LEU:HD23 | 1:97:A:PHE:HZ | 16 | 0.21 |
| (2,2080) | 1:15:A:PRO:HD2 | 1:14:A:LYS:HA | 1 | 0.21 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 1 | 0.21 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 10 | 0.21 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 18 | 0.21 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 20 | 0.21 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 17 | 0.21 |
| (2,1955) | 1:145:A:LEU:HB2 | 1:145:A:LEU:HD23 | 17 | 0.21 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 10 | 0.21 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 19 | 0.21 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 9 | 0.21 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 3 | 0.21 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG21 | 11 | 0.21 |
| (2,1915) | 1:134:A:LEU:HD22 | 1:86:A:LYS:HB3 | 8 | 0.21 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 6 | 0.21 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 11 | 0.21 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 13 | 0.21 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 15 | 0.21 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 20 | 0.21 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 9 | 0.21 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 3 | 0.21 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 5 | 0.21 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 3 | 0.21 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 7 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 5 | 0.21 |
| (2,1706) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 20 | 0.21 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 2 | 0.21 |
| (2,1672) | 1:31:A:ILE:HG22 | 1:127:A:ASN:H | 3 | 0.21 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 4 | 0.21 |
| (2,1671) | 1:31:A:ILE:HG21 | 1:127:A:ASN:HD21 | 6 | 0.21 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 13 | 0.21 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 5 | 0.21 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 12 | 0.21 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 7 | 0.21 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 3 | 0.21 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 13 | 0.21 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 7 | 0.21 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 20 | 0.21 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 17 | 0.21 |
| (2,1482) | 1:15:A:PRO:HA | 1:15:A:PRO:HD2 | 20 | 0.21 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 4 | 0.21 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 10 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 1 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 4 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HB | 9 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 12 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 13 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 17 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 18 | 0.21 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 19 | 0.21 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 19 | 0.21 |
| (2,1371) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HD1 | 17 | 0.21 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 2 | 0.21 |
| (2,1351) | 1:51:A:ILE:HG21 | 1:66:A:THR:HA | 20 | 0.21 |
| (2,1330) | 1:115:A:ILE:HG23 | 1:37:A:GLN:H | 5 | 0.21 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 3 | 0.21 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 1 | 0.21 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 3 | 0.21 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 7 | 0.21 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 11 | 0.21 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 19 | 0.21 |
| (2,1299) | 1:51:A:ILE:HD12 | 1:33:A:VAL:HB | 1 | 0.21 |
| (2,1294) | 1:51:A:ILE:HD11 | 1:67:A:VAL:HG22 | 11 | 0.21 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 14 | 0.21 |
| (2,1212) | 1:29:A:LEU:HD11 | 1:57:A:LEU:H | 18 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 3 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 5 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 14 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 15 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 16 | 0.21 |
| (2,1150) | 1:122:A:LEU:HB3 | 1:122:A:LEU:HB2 | 20 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 1 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 3 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 4 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 5 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 11 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 13 | 0.21 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 16 | 0.21 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 9 | 0.21 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 19 | 0.21 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 15 | 0.21 |
| (2,1055) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HA | 6 | 0.21 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 14 | 0.21 |
| (2,999) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HA | 4 | 0.21 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 2 | 0.21 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 15 | 0.21 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 19 | 0.21 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 8 | 0.21 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 14 | 0.21 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 17 | 0.21 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 7 | 0.21 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 17 | 0.21 |
| (2,755) | 1:122:A:LEU:HD22 | 1:122:A:LEU:HA | 6 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 1 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 6 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 8 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 9 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 11 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 12 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 14 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 15 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 17 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 18 | 0.21 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 20 | 0.21 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 3 | 0.21 |
| (2,673) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 4 | 0.21 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 18 | 0.21 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 10 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG21 | 2 | 0.21 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG23 | 11 | 0.21 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG23 | 13 | 0.21 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 1 | 0.21 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG23 | 4 | 0.21 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 9 | 0.21 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG22 | 10 | 0.21 |
| (2,608) | 1:129:A:VAL:HG13 | 1:126:A:ILE:HA | 17 | 0.21 |
| (2,598) | 1:129:A:VAL:HG13 | 1:125:A:PHE:HD1 | 16 | 0.21 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 1 | 0.21 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 9 | 0.21 |
| (2,562) | 1:143:A:MET:HA | 1:147:A:ASP:HB3 | 18 | 0.21 |
| (2,549) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG12 | 1 | 0.21 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 14 | 0.21 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD1 | 10 | 0.21 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 3 | 0.21 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 3 | 0.21 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 4 | 0.21 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 6 | 0.21 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 12 | 0.21 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 17 | 0.21 |
| (2,455) | 1:48:A:THR:HG23 | 1:49:A:TYR:H | 8 | 0.21 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG12 | 1 | 0.21 |
| (2,381) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HD12 | 3 | 0.21 |
| (2,372) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HB2 | 16 | 0.21 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 17 | 0.21 |
| (2,357) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HZ | 19 | 0.21 |
| (2,312) | 1:92:A:LEU:HD23 | 1:74:A:PHE:HA | 4 | 0.21 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 15 | 0.21 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 9 | 0.21 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 13 | 0.21 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG23 | 8 | 0.21 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 6 | 0.21 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 9 | 0.21 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 19 | 0.21 |
| (2,151) | 1:66:A:THR:HG23 | 1:50:A:GLU:H | 19 | 0.21 |
| (2,133) | 1:67:A:VAL:HG12 | 1:66:A:THR:H | 1 | 0.21 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 9 | 0.21 |
| (2,4975) | 1:108:A:GLY:H | 1:105:A:GLY:HA3 | 15 | 0.2 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG22 | 20 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG23 | 1 | 0.2 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG22 | 8 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 6 | 0.2 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE3 | 6 | 0.2 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 10 | 0.2 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 18 | 0.2 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 17 | 0.2 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD11 | 3 | 0.2 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD11 | 10 | 0.2 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 8 | 0.2 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 4 | 0.2 |
| (2,4760) | 1:5:A:VAL:HG11 | 1:4:A:THR:H | 14 | 0.2 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 10 | 0.2 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE2 | 12 | 0.2 |
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG3 | 3 | 0.2 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 11 | 0.2 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 9 | 0.2 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 4 | 0.2 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 15 | 0.2 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 10 | 0.2 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 12 | 0.2 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 10 | 0.2 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 5 | 0.2 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 17 | 0.2 |
| (2,4688) | 1:136:A:GLN:H | 1:134:A:LEU:HD22 | 19 | 0.2 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 6 | 0.2 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 12 | 0.2 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 16 | 0.2 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 18 | 0.2 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 17 | 0.2 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 5 | 0.2 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 2 | 0.2 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD21 | 4 | 0.2 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 6 | 0.2 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 6 | 0.2 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 10 | 0.2 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 11 | 0.2 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 10 | 0.2 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 8 | 0.2 |
| (2,4497) | 1:59:A:ILE:HD13 | 1:137:A:ASN:HB2 | 11 | 0.2 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD12 | 3 | 0.2 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD12 | 5 | 0.2 |
| (2,4423) | 1:33:A:VAL:HG21 | 1:122:A:LEU:HG | 2 | 0.2 |
| (2,4414) | 1:11:A:LEU:HA | 1:10:A:ARG:HB2 | 19 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4398) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HD2 | 3 | 0.2 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 10 | 0.2 |
| (2,4319) | 1:115:A:ILE:HG21 | 1:118:A:ARG:HB3 | 1 | 0.2 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 2 | 0.2 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 3 | 0.2 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 7 | 0.2 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 10 | 0.2 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 16 | 0.2 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 19 | 0.2 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 16 | 0.2 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 4 | 0.2 |
| (2,4229) | 1:58:A:PRO:HG2 | 1:59:A:ILE:HG23 | 8 | 0.2 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 5 | 0.2 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 10 | 0.2 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 12 | 0.2 |
| (2,4192) | 1:50:A:GLU:HG2 | 1:52:A:ARG:HD2 | 19 | 0.2 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 10 | 0.2 |
| (2,4102) | 1:51:A:ILE:HG22 | 1:53:A:VAL:HB | 7 | 0.2 |
| (2,4100) | 1:59:A:ILE:HG22 | 1:141:A:LEU:HB2 | 13 | 0.2 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 11 | 0.2 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 19 | 0.2 |
| (2,4095) | 1:59:A:ILE:HG23 | 1:137:A:ASN:H | 15 | 0.2 |
| (2,4072) | 1:101:A:LEU:HB2 | 1:103:A:PHE:H | 13 | 0.2 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:110:A:PHE:HD1 | 10 | 0.2 |
| (2,4027) | 1:152:A:LYS:HE3 | 1:73:A:ASP:H | 4 | 0.2 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD21 | 17 | 0.2 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 1 | 0.2 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 9 | 0.2 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 14 | 0.2 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 5 | 0.2 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 18 | 0.2 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 17 | 0.2 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 18 | 0.2 |
| (2,3942) | 1:115:A:ILE:HG23 | 1:119:A:LYS:HE2 | 8 | 0.2 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 16 | 0.2 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 18 | 0.2 |
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 19 | 0.2 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 5 | 0.2 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 8 | 0.2 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 14 | 0.2 |
| (2,3892) | 1:93:A:PRO:HG2 | 1:71:A:TYR:HE1 | 14 | 0.2 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 18 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 2 | 0.2 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 6 | 0.2 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 8 | 0.2 |
| (2,3861) | 1:120:A:GLN:HA | 1:120:A:GLN:HG2 | 9 | 0.2 |
| (2,3833) | 1:127:A:ASN:HA | 1:29:A:LEU:HD22 | 2 | 0.2 |
| (2,3826) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 10 | 0.2 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 14 | 0.2 |
| (2,3783) | 1:143:A:MET:HE3 | 1:143:A:MET:HB3 | 7 | 0.2 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 20 | 0.2 |
| (2,3755) | 1:48:A:THR:HG21 | 1:46:A:PHE:HB2 | 3 | 0.2 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 1 | 0.2 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 13 | 0.2 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 9 | 0.2 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 11 | 0.2 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 19 | 0.2 |
| (2,3707) | 1:92:A:LEU:HD22 | 1:78:A:ARG:H | 1 | 0.2 |
| (2,3707) | 1:92:A:LEU:HD21 | 1:78:A:ARG:H | 13 | 0.2 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:75:A:GLU:HG3 | 13 | 0.2 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 13 | 0.2 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 15 | 0.2 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 20 | 0.2 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB1 | 8 | 0.2 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:29:A:LEU:HB3 | 10 | 0.2 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 8 | 0.2 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 5 | 0.2 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 17 | 0.2 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 18 | 0.2 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 9 | 0.2 |
| (2,3501) | 1:142:A:HIS:H | 1:143:A:MET:HB3 | 17 | 0.2 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 10 | 0.2 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 14 | 0.2 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 5 | 0.2 |
| (2,3253) | 1:55:A:THR:HG22 | 1:64:A:GLU:H | 18 | 0.2 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 6 | 0.2 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 12 | 0.2 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 7 | 0.2 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 15 | 0.2 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 20 | 0.2 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 12 | 0.2 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 17 | 0.2 |
| (2,3056) | 1:16:A:GLN:H | 1:16:A:GLN:HE22 | 2 | 0.2 |
| (2,3024) | 1:11:A:LEU:HD11 | 1:10:A:ARG:H | 4 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 12 | 0.2 |
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 11 | 0.2 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 14 | 0.2 |
| (2,2995) | 1:4:A:THR:HA | 1:5:A:VAL:H | 17 | 0.2 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 6 | 0.2 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 15 | 0.2 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 20 | 0.2 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG23 | 20 | 0.2 |
| (2,2805) | 1:126:A:ILE:HD13 | 1:130:A:ALA:H | 4 | 0.2 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 11 | 0.2 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 19 | 0.2 |
| (2,2786) | 1:41:A:VAL:H | 1:39:A:VAL:HG22 | 14 | 0.2 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 18 | 0.2 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 13 | 0.2 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG23 | 16 | 0.2 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 9 | 0.2 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 11 | 0.2 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 6 | 0.2 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 7 | 0.2 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 8 | 0.2 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 12 | 0.2 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 20 | 0.2 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 5 | 0.2 |
| (2,2373) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HE1 | 9 | 0.2 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 1 | 0.2 |
| (2,2321) | 1:81:A:LEU:HD23 | 1:87:A:VAL:HB | 5 | 0.2 |
| (2,2251) | 1:130:A:ALA:HB2 | 1:126:A:ILE:HD12 | 16 | 0.2 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD13 | 5 | 0.2 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 16 | 0.2 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 2 | 0.2 |
| (2,2231) | 1:81:A:LEU:HD13 | 1:89:A:VAL:HG22 | 11 | 0.2 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD11 | 19 | 0.2 |
| (2,2163) | 1:44:A:GLY:HA2 | 1:43:A:ARG:HB3 | 10 | 0.2 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 20 | 0.2 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 13 | 0.2 |
| (2,2142) | 1:31:A:ILE:HG22 | 1:33:A:VAL:HG13 | 5 | 0.2 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 6 | 0.2 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 8 | 0.2 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 15 | 0.2 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 16 | 0.2 |
| (2,2095) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 18 | 0.2 |
| (2,2094) | 1:98:A:LEU:HD21 | 1:97:A:PHE:HZ | 8 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 3 | 0.2 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 6 | 0.2 |
| (2,2026) | 1:54:A:LYS:HB2 | 1:28:A:PHE:HD1 | 19 | 0.2 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 11 | 0.2 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD12 | 14 | 0.2 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 20 | 0.2 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 15 | 0.2 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 15 | 0.2 |
| (2,1922) | 1:33:A:VAL:HG23 | 1:33:A:VAL:HA | 18 | 0.2 |
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 10 | 0.2 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 17 | 0.2 |
| (2,1919) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HB2 | 19 | 0.2 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 4 | 0.2 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 10 | 0.2 |
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 13 | 0.2 |
| (2,1898) | 1:115:A:ILE:HG22 | 1:116:A:GLU:HB2 | 16 | 0.2 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 17 | 0.2 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 12 | 0.2 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 11 | 0.2 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 7 | 0.2 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 4 | 0.2 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 12 | 0.2 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 18 | 0.2 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 17 | 0.2 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 11 | 0.2 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 18 | 0.2 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 15 | 0.2 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 4 | 0.2 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 20 | 0.2 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 20 | 0.2 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 5 | 0.2 |
| (2,1535) | 1:46:A:PHE:HA | 1:46:A:PHE:HE1 | 7 | 0.2 |
| (2,1511) | 1:59:A:ILE:HG22 | 1:57:A:LEU:HG | 2 | 0.2 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 14 | 0.2 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 5 | 0.2 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 9 | 0.2 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 2 | 0.2 |
| (2,1398) | 1:33:A:VAL:HG11 | 1:74:A:PHE:HD2 | 11 | 0.2 |
| (2,1391) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HB | 2 | 0.2 |
| (2,1391) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HB | 16 | 0.2 |
| (2,1384) | 1:135:A:ALA:HB2 | 1:137:A:ASN:H | 8 | 0.2 |
| (2,1371) | 1:21:A:ALA:HB2 | 1:22:A:TYR:HD1 | 14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 18 | 0.2 |
| (2,1350) | 1:51:A:ILE:HG23 | 1:145:A:LEU:HA | 5 | 0.2 |
| (2,1326) | 1:12:A:ILE:HG23 | 1:13:A:THR:HA | 18 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 4 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 6 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 8 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 9 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 10 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 12 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 14 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 16 | 0.2 |
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 17 | 0.2 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 9 | 0.2 |
| (2,1312) | 1:149:A:ILE:HG22 | 1:151:A:ASP:H | 5 | 0.2 |
| (2,1312) | 1:149:A:ILE:HG21 | 1:151:A:ASP:H | 19 | 0.2 |
| (2,1283) | 1:31:A:ILE:HD13 | 1:31:A:ILE:H | 6 | 0.2 |
| (2,1283) | 1:31:A:ILE:HD12 | 1:31:A:ILE:H | 17 | 0.2 |
| (2,1257) | 1:150:A:ILE:HG22 | 1:152:A:LYS:HG2 | 4 | 0.2 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB2 | 16 | 0.2 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 9 | 0.2 |
| (2,1137) | 1:59:A:ILE:HD13 | 1:59:A:ILE:HB | 16 | 0.2 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 19 | 0.2 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 8 | 0.2 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 8 | 0.2 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 14 | 0.2 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 3 | 0.2 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 13 | 0.2 |
| (2,1063) | 1:159:A:ILE:HD11 | 1:142:A:HIS:HB3 | 9 | 0.2 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 4 | 0.2 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 20 | 0.2 |
| (2,1050) | 1:148:A:GLU:HB2 | 1:149:A:ILE:HG13 | 15 | 0.2 |
| (2,1022) | 1:148:A:GLU:HA | 1:148:A:GLU:HG2 | 6 | 0.2 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 3 | 0.2 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 13 | 0.2 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 15 | 0.2 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 19 | 0.2 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD22 | 4 | 0.2 |
| (2,988) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HB3 | 18 | 0.2 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 5 | 0.2 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 6 | 0.2 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 12 | 0.2 |
| (2,982) | 1:12:A:ILE:HA | 1:12:A:ILE:HG13 | 2 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG23 | 10 | 0.2 |
| (2,755) | 1:122:A:LEU:HD21 | 1:122:A:LEU:HA | 1 | 0.2 |
| (2,755) | 1:122:A:LEU:HD21 | 1:122:A:LEU:HA | 9 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 2 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 3 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 4 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 5 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 7 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 10 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 13 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 16 | 0.2 |
| (2,713) | 1:120:A:GLN:HG2 | 1:120:A:GLN:HE22 | 19 | 0.2 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 5 | 0.2 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 19 | 0.2 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 17 | 0.2 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB1 | 5 | 0.2 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG22 | 4 | 0.2 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG21 | 5 | 0.2 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG21 | 6 | 0.2 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG21 | 7 | 0.2 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG21 | 18 | 0.2 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG21 | 20 | 0.2 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 8 | 0.2 |
| (2,608) | 1:129:A:VAL:HG12 | 1:126:A:ILE:HA | 1 | 0.2 |
| (2,598) | 1:129:A:VAL:HG13 | 1:125:A:PHE:HD1 | 15 | 0.2 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 2 | 0.2 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 20 | 0.2 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 3 | 0.2 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 10 | 0.2 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 14 | 0.2 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 20 | 0.2 |
| (2,523) | 1:122:A:LEU:HD13 | 1:125:A:PHE:HZ | 10 | 0.2 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 1 | 0.2 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 2 | 0.2 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 5 | 0.2 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 9 | 0.2 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 13 | 0.2 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 15 | 0.2 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 19 | 0.2 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 12 | 0.2 |
| (2,455) | 1:48:A:THR:HG23 | 1:49:A:TYR:H | 14 | 0.2 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 16 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD13 | 14 | 0.2 |
| (2,375) | 1:89:A:VAL:HG21 | 1:78:A:ARG:HG3 | 10 | 0.2 |
| (2,362) | 1:89:A:VAL:HG22 | 1:87:A:VAL:H | 5 | 0.2 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 9 | 0.2 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 16 | 0.2 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 11 | 0.2 |
| (2,291) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HD3 | 18 | 0.2 |
| (2,257) | 1:150:A:ILE:HD11 | 1:152:A:LYS:HE2 | 2 | 0.2 |
| (2,251) | 1:150:A:ILE:HG21 | 1:154:A:TYR:HE1 | 13 | 0.2 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 5 | 0.2 |
| (2,241) | 1:150:A:ILE:HG21 | 1:151:A:ASP:H | 8 | 0.2 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 12 | 0.2 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 11 | 0.2 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 12 | 0.2 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 15 | 0.2 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 20 | 0.2 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 12 | 0.2 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 12 | 0.2 |
| (2,150) | 1:66:A:THR:HG22 | 1:53:A:VAL:H | 20 | 0.2 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG21 | 2 | 0.2 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG23 | 9 | 0.2 |
| (2,46) | 1:83:A:ARG:HB3 | 1:83:A:ARG:HD3 | 15 | 0.2 |
| (2,4973) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HD21 | 8 | 0.19 |
| (2,4973) | 1:59:A:ILE:HD13 | 1:137:A:ASN:HD21 | 16 | 0.19 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 1 | 0.19 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 18 | 0.19 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD11 | 3 | 0.19 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 14 | 0.19 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 10 | 0.19 |
| (2,4891) | 1:143:A:MET:H | 1:77:A:LEU:HD23 | 17 | 0.19 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 16 | 0.19 |
| (2,4852) | 1:97:A:PHE:HB2 | 1:96:A:ALA:H | 10 | 0.19 |
| (2,4852) | 1:97:A:PHE:HB2 | 1:96:A:ALA:H | 17 | 0.19 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 14 | 0.19 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 15 | 0.19 |
| (2,4816) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 19 | 0.19 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD2 | 2 | 0.19 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 1 | 0.19 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD2 | 9 | 0.19 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 9 | 0.19 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 11 | 0.19 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 15 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 2 | 0.19 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 18 | 0.19 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 17 | 0.19 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 3 | 0.19 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 4 | 0.19 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 5 | 0.19 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 7 | 0.19 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE3 | 14 | 0.19 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 19 | 0.19 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 9 | 0.19 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 10 | 0.19 |
| (2,4592) | 1:20:A:ASP:HB2 | 1:21:A:ALA:H | 6 | 0.19 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 10 | 0.19 |
| (2,4589) | 1:35:A:ASN:H | 1:36:A:PRO:HB3 | 15 | 0.19 |
| (2,4581) | 1:106:A:ASP:HB3 | 1:105:A:GLY:HA2 | 3 | 0.19 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 4 | 0.19 |
| (2,4580) | 1:107:A:ASP:HB2 | 1:108:A:GLY:HA3 | 11 | 0.19 |
| (2,4574) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HD2 | 3 | 0.19 |
| (2,4557) | 1:33:A:VAL:HG21 | 1:124:A:GLN:H | 14 | 0.19 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 7 | 0.19 |
| (2,4534) | 1:149:A:ILE:HG21 | 1:150:A:ILE:HG13 | 4 | 0.19 |
| (2,4534) | 1:149:A:ILE:HG22 | 1:150:A:ILE:HG13 | 11 | 0.19 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 8 | 0.19 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 18 | 0.19 |
| (2,4518) | 1:115:A:ILE:HD13 | 1:113:A:ASN:H | 9 | 0.19 |
| (2,4497) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HB2 | 8 | 0.19 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 2 | 0.19 |
| (2,4473) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HB2 | 12 | 0.19 |
| (2,4473) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HB2 | 19 | 0.19 |
| (2,4454) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 5 | 0.19 |
| (2,4426) | 1:18:A:LEU:HA | 1:17:A:ASN:HB2 | 11 | 0.19 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 4 | 0.19 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD13 | 1 | 0.19 |
| (2,4335) | 1:77:A:LEU:HD21 | 1:141:A:LEU:HB3 | 13 | 0.19 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 5 | 0.19 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 8 | 0.19 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 12 | 0.19 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG22 | 13 | 0.19 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 9 | 0.19 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 17 | 0.19 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 9 | 0.19 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 11 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 15 | 0.19 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 8 | 0.19 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 16 | 0.19 |
| (2,4202) | 1:159:A:ILE:HG23 | 1:160:A:ARG:HD3 | 9 | 0.19 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 12 | 0.19 |
| (2,4198) | 1:160:A:ARG:HD3 | 1:137:A:ASN:HD22 | 20 | 0.19 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 1 | 0.19 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 15 | 0.19 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 11 | 0.19 |
| (2,4136) | 1:137:A:ASN:HB2 | 1:134:A:LEU:HB2 | 17 | 0.19 |
| (2,4098) | 1:59:A:ILE:HG23 | 1:60:A:PHE:HB3 | 13 | 0.19 |
| (2,4082) | 1:126:A:ILE:HD13 | 1:129:A:VAL:H | 5 | 0.19 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 11 | 0.19 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 13 | 0.19 |
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 2 | 0.19 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 10 | 0.19 |
| (2,4052) | 1:29:A:LEU:HD22 | 1:57:A:LEU:HG | 11 | 0.19 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 14 | 0.19 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 7 | 0.19 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 19 | 0.19 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD22 | 13 | 0.19 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 10 | 0.19 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 8 | 0.19 |
| (2,3991) | 1:26:A:SER:HB3 | 1:57:A:LEU:HD21 | 17 | 0.19 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 2 | 0.19 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 4 | 0.19 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 7 | 0.19 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 15 | 0.19 |
| (2,3958) | 1:109:A:ILE:HD12 | 1:107:A:ASP:H | 5 | 0.19 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 17 | 0.19 |
| (2,3943) | 1:115:A:ILE:HD11 | 1:112:A:ASP:HB2 | 7 | 0.19 |
| (2,3925) | 1:118:A:ARG:HA | 1:93:A:PRO:HG2 | 5 | 0.19 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 2 | 0.19 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 8 | 0.19 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 14 | 0.19 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 6 | 0.19 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 7 | 0.19 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 12 | 0.19 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 19 | 0.19 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 5 | 0.19 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 16 | 0.19 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD13 | 14 | 0.19 |
| (2,3847) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HB2 | 1 | 0.19 |
| (2,3833) | 1:127:A:ASN:HA | 1:29:A:LEU:HD23 | 9 | 0.19 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 15 | 0.19 |
| (2,3762) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 17 | 0.19 |
| (2,3759) | 1:53:A:VAL:HG22 | 1:30:A:GLU:H | 4 | 0.19 |
| (2,3745) | 1:87:A:VAL:HG21 | 1:138:A:GLU:HB2 | 12 | 0.19 |
| (2,3740) | 1:87:A:VAL:HG23 | 1:86:A:LYS:H | 2 | 0.19 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 14 | 0.19 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 8 | 0.19 |
| (2,3736) | 1:58:A:PRO:HG2 | 1:59:A:ILE:H | 20 | 0.19 |
| (2,3728) | 1:89:A:VAL:HG12 | 1:78:A:ARG:HG2 | 2 | 0.19 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 7 | 0.19 |
| (2,3705) | 1:92:A:LEU:HG | 1:93:A:PRO:HD3 | 4 | 0.19 |
| (2,3702) | 1:92:A:LEU:HD22 | 1:75:A:GLU:HG2 | 2 | 0.19 |
| (2,3690) | 1:150:A:ILE:HD11 | 1:143:A:MET:HG3 | 7 | 0.19 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 19 | 0.19 |
| (2,3584) | 1:108:A:GLY:H | 1:109:A:ILE:HA | 7 | 0.19 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 3 | 0.19 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 16 | 0.19 |
| (2,3303) | 1:84:A:GLU:H | 1:83:A:ARG:HB3 | 3 | 0.19 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 3 | 0.19 |
| (2,3253) | 1:55:A:THR:HG23 | 1:64:A:GLU:H | 1 | 0.19 |
| (2,3253) | 1:55:A:THR:HG21 | 1:64:A:GLU:H | 10 | 0.19 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 19 | 0.19 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 6 | 0.19 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD23 | 10 | 0.19 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 1 | 0.19 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 3 | 0.19 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 6 | 0.19 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 9 | 0.19 |
| (2,3066) | 1:16:A:GLN:HE21 | 1:16:A:GLN:HB2 | 20 | 0.19 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 19 | 0.19 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 7 | 0.19 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 8 | 0.19 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 3 | 0.19 |
| (2,2979) | 1:2:A:ALA:HB3 | 1:3:A:GLU:H | 8 | 0.19 |
| (2,2938) | 1:4:A:THR:HG22 | 1:5:A:VAL:H | 10 | 0.19 |
| (2,2913) | 1:115:A:ILE:HD13 | 1:37:A:GLN:H | 7 | 0.19 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 2 | 0.19 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 10 | 0.19 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 17 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 9 | 0.19 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 8 | 0.19 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 10 | 0.19 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 14 | 0.19 |
| (2,2708) | 1:35:A:ASN:HD22 | 1:50:A:GLU:HG2 | 20 | 0.19 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 12 | 0.19 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 16 | 0.19 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 9 | 0.19 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG22 | 14 | 0.19 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 16 | 0.19 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 13 | 0.19 |
| (2,2558) | 1:89:A:VAL:HG13 | 1:82:A:GLU:H | 19 | 0.19 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 18 | 0.19 |
| (2,2530) | 1:83:A:ARG:HG3 | 1:83:A:ARG:H | 16 | 0.19 |
| (2,2530) | 1:83:A:ARG:HG3 | 1:83:A:ARG:H | 18 | 0.19 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 6 | 0.19 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 13 | 0.19 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 13 | 0.19 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 20 | 0.19 |
| (2,2410) | 1:109:A:ILE:HG21 | 1:114:A:PHE:HB2 | 19 | 0.19 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD11 | 19 | 0.19 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 9 | 0.19 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 6 | 0.19 |
| (2,2338) | 1:29:A:LEU:HD22 | 1:130:A:ALA:H | 18 | 0.19 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 3 | 0.19 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG22 | 9 | 0.19 |
| (2,2267) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 4 | 0.19 |
| (2,2251) | 1:130:A:ALA:HB1 | 1:126:A:ILE:HD13 | 5 | 0.19 |
| (2,2251) | 1:130:A:ALA:HB3 | 1:126:A:ILE:HD13 | 11 | 0.19 |
| (2,2250) | 1:127:A:ASN:HA | 1:126:A:ILE:HD12 | 16 | 0.19 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 10 | 0.19 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD13 | 18 | 0.19 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 2 | 0.19 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 4 | 0.19 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG23 | 4 | 0.19 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG21 | 12 | 0.19 |
| (2,2095) | 1:134:A:LEU:HD22 | 1:88:A:VAL:H | 5 | 0.19 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 9 | 0.19 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 2 | 0.19 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD13 | 7 | 0.19 |
| (2,2019) | 1:134:A:LEU:HG | 1:134:A:LEU:HD11 | 10 | 0.19 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 17 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 8 | 0.19 |
| (2,1965) | 1:149:A:ILE:HD12 | 1:150:A:ILE:HA | 4 | 0.19 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 1 | 0.19 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 12 | 0.19 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 20 | 0.19 |
| (2,1919) | 1:33:A:VAL:HG23 | 1:49:A:TYR:HB2 | 11 | 0.19 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 15 | 0.19 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 16 | 0.19 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 11 | 0.19 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 14 | 0.19 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 5 | 0.19 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 20 | 0.19 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 14 | 0.19 |
| (2,1706) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 9 | 0.19 |
| (2,1706) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 15 | 0.19 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 13 | 0.19 |
| (2,1671) | 1:31:A:ILE:HG23 | 1:127:A:ASN:HD21 | 1 | 0.19 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 7 | 0.19 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 19 | 0.19 |
| (2,1592) | 1:77:A:LEU:HD22 | 1:141:A:LEU:HA | 4 | 0.19 |
| (2,1585) | 1:141:A:LEU:HD11 | 1:141:A:LEU:H | 15 | 0.19 |
| (2,1542) | 1:134:A:LEU:HB3 | 1:88:A:VAL:H | 11 | 0.19 |
| (2,1500) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD2 | 15 | 0.19 |
| (2,1499) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD3 | 3 | 0.19 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 2 | 0.19 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 3 | 0.19 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 6 | 0.19 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 16 | 0.19 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 3 | 0.19 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 6 | 0.19 |
| (2,1398) | 1:33:A:VAL:HG12 | 1:74:A:PHE:HD2 | 4 | 0.19 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 20 | 0.19 |
| (2,1380) | 1:135:A:ALA:HB2 | 1:141:A:LEU:HD21 | 5 | 0.19 |
| (2,1371) | 1:21:A:ALA:HB1 | 1:22:A:TYR:HD1 | 18 | 0.19 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 11 | 0.19 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 15 | 0.19 |
| (2,1330) | 1:115:A:ILE:HG22 | 1:37:A:GLN:H | 4 | 0.19 |
| (2,1328) | 1:115:A:ILE:HG22 | 1:114:A:PHE:HE2 | 4 | 0.19 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 12 | 0.19 |
| (2,1326) | 1:12:A:ILE:HG23 | 1:13:A:THR:HA | 3 | 0.19 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 5 | 0.19 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 13 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1324) | 1:12:A:ILE:HG23 | 1:12:A:ILE:HB | 18 | 0.19 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 17 | 0.19 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 20 | 0.19 |
| (2,1290) | 1:51:A:ILE:HD13 | 1:49:A:TYR:HB3 | 15 | 0.19 |
| (2,1286) | 1:51:A:ILE:HD13 | 1:144:A:PHE:HE2 | 18 | 0.19 |
| (2,1244) | 1:81:A:LEU:HD23 | 1:135:A:ALA:HB1 | 11 | 0.19 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 6 | 0.19 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 8 | 0.19 |
| (2,1147) | 1:122:A:LEU:HD11 | 1:93:A:PRO:HB3 | 14 | 0.19 |
| (2,1137) | 1:59:A:ILE:HD11 | 1:59:A:ILE:HB | 9 | 0.19 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 2 | 0.19 |
| (2,1114) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 6 | 0.19 |
| (2,1099) | 1:18:A:LEU:HD23 | 1:18:A:LEU:HA | 15 | 0.19 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 1 | 0.19 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 4 | 0.19 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 9 | 0.19 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 16 | 0.19 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 8 | 0.19 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 16 | 0.19 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 2 | 0.19 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 5 | 0.19 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 7 | 0.19 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 10 | 0.19 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 13 | 0.19 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 17 | 0.19 |
| (2,926) | 1:109:A:ILE:HD11 | 1:45:A:ARG:HB3 | 4 | 0.19 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 1 | 0.19 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG23 | 17 | 0.19 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 20 | 0.19 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 11 | 0.19 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 5 | 0.19 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 16 | 0.19 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB3 | 18 | 0.19 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG23 | 8 | 0.19 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG23 | 9 | 0.19 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG21 | 14 | 0.19 |
| (2,619) | 1:129:A:VAL:HG12 | 1:129:A:VAL:HG22 | 17 | 0.19 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 20 | 0.19 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD1 | 18 | 0.19 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 8 | 0.19 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 1 | 0.19 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 1 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 20 | 0.19 |
| (2,516) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HA | 1 | 0.19 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 10 | 0.19 |
| (2,488) | 1:126:A:ILE:HG21 | 1:126:A:ILE:HA | 11 | 0.19 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 14 | 0.19 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 16 | 0.19 |
| (2,488) | 1:126:A:ILE:HG23 | 1:126:A:ILE:HA | 20 | 0.19 |
| (2,461) | 1:48:A:THR:HG21 | 1:68:A:ARG:HG2 | 2 | 0.19 |
| (2,461) | 1:48:A:THR:HG22 | 1:68:A:ARG:HG2 | 6 | 0.19 |
| (2,454) | 1:141:A:LEU:HD13 | 1:77:A:LEU:HD13 | 12 | 0.19 |
| (2,417) | 1:87:A:VAL:HG23 | 1:132:A:HIS:HD2 | 1 | 0.19 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD11 | 11 | 0.19 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 2 | 0.19 |
| (2,372) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HB2 | 12 | 0.19 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG23 | 13 | 0.19 |
| (2,362) | 1:89:A:VAL:HG21 | 1:87:A:VAL:H | 11 | 0.19 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG12 | 16 | 0.19 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 18 | 0.19 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 10 | 0.19 |
| (2,248) | 1:150:A:ILE:HG23 | 1:144:A:PHE:HD1 | 13 | 0.19 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 3 | 0.19 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 15 | 0.19 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE1 | 1 | 0.19 |
| (2,230) | 1:151:A:ASP:HB2 | 1:143:A:MET:HE2 | 8 | 0.19 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG21 | 13 | 0.19 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 7 | 0.19 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 14 | 0.19 |
| (2,133) | 1:67:A:VAL:HG13 | 1:66:A:THR:H | 10 | 0.19 |
| (2,133) | 1:67:A:VAL:HG11 | 1:66:A:THR:H | 18 | 0.19 |
| (2,4945) | 1:77:A:LEU:HD21 | 1:142:A:HIS:H | 20 | 0.18 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 5 | 0.18 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 2 | 0.18 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 13 | 0.18 |
| (2,4872) | 1:113:A:ASN:H | 1:116:A:GLU:HB3 | 8 | 0.18 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 13 | 0.18 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 2 | 0.18 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 15 | 0.18 |
| (2,4816) | 1:81:A:LEU:HD11 | 1:81:A:LEU:H | 1 | 0.18 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 19 | 0.18 |
| (2,4774) | 1:11:A:LEU:H | 1:10:A:ARG:HD2 | 11 | 0.18 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 8 | 0.18 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 13 | 0.18 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG23 | 17 | 0.18 |
| (2,4731) | 1:37:A:GLN:H | 1:37:A:GLN:HG2 | 20 | 0.18 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 13 | 0.18 |
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG3 | 9 | 0.18 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 13 | 0.18 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 8 | 0.18 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 10 | 0.18 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 12 | 0.18 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 2 | 0.18 |
| (2,4682) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 19 | 0.18 |
| (2,4679) | 1:19:A:ASN:HD22 | 1:18:A:LEU:HB3 | 5 | 0.18 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 10 | 0.18 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 9 | 0.18 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 10 | 0.18 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 9 | 0.18 |
| (2,4592) | 1:20:A:ASP:HB2 | 1:21:A:ALA:H | 18 | 0.18 |
| (2,4592) | 1:20:A:ASP:HB2 | 1:21:A:ALA:H | 19 | 0.18 |
| (2,4588) | 1:35:A:ASN:H | 1:36:A:PRO:HG3 | 8 | 0.18 |
| (2,4576) | 1:54:A:LYS:HD2 | 1:28:A:PHE:HE1 | 10 | 0.18 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 4 | 0.18 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 10 | 0.18 |
| (2,4574) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HD2 | 20 | 0.18 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 4 | 0.18 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 15 | 0.18 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 1 | 0.18 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 8 | 0.18 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 18 | 0.18 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:130:A:ALA:HA | 5 | 0.18 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 11 | 0.18 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 10 | 0.18 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 9 | 0.18 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 15 | 0.18 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD13 | 17 | 0.18 |
| (2,4465) | 1:61:A:LYS:HD3 | 1:62:A:LEU:HG | 15 | 0.18 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 9 | 0.18 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD21 | 18 | 0.18 |
| (2,4405) | 1:8:A:THR:HA | 1:8:A:THR:HG22 | 6 | 0.18 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD12 | 9 | 0.18 |
| (2,4374) | 1:43:A:ARG:HB2 | 1:43:A:ARG:HD2 | 9 | 0.18 |
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD2 | 14 | 0.18 |
| (2,4350) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD22 | 16 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 13 | 0.18 |
| (2,4326) | 1:33:A:VAL:HG21 | 1:125:A:PHE:HD2 | 3 | 0.18 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 1 | 0.18 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 6 | 0.18 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 10 | 0.18 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 5 | 0.18 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 10 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 6 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 10 | 0.18 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 15 | 0.18 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 7 | 0.18 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 1 | 0.18 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 10 | 0.18 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 12 | 0.18 |
| (2,4265) | 1:68:A:ARG:HD2 | 1:68:A:ARG:H | 3 | 0.18 |
| (2,4249) | 1:12:A:ILE:HD11 | 1:12:A:ILE:H | 3 | 0.18 |
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 10 | 0.18 |
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 13 | 0.18 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 20 | 0.18 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 10 | 0.18 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 18 | 0.18 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 1 | 0.18 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 13 | 0.18 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 20 | 0.18 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 13 | 0.18 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 14 | 0.18 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 4 | 0.18 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 9 | 0.18 |
| (2,4194) | 1:10:A:ARG:HA | 1:10:A:ARG:H | 19 | 0.18 |
| (2,4170) | 1:64:A:GLU:HG3 | 1:64:A:GLU:HB2 | 19 | 0.18 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD11 | 9 | 0.18 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 12 | 0.18 |
| (2,4151) | 1:57:A:LEU:HD22 | 1:131:A:GLY:HA3 | 16 | 0.18 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 2 | 0.18 |
| (2,4141) | 1:64:A:GLU:HG3 | 1:55:A:THR:H | 3 | 0.18 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 14 | 0.18 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 17 | 0.18 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 12 | 0.18 |
| (2,4112) | 1:81:A:LEU:HD12 | 1:135:A:ALA:HB1 | 4 | 0.18 |
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 10 | 0.18 |
| (2,4082) | 1:126:A:ILE:HD13 | 1:129:A:VAL:H | 15 | 0.18 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 17 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 13 | 0.18 |
| (2,4050) | 1:29:A:LEU:HD12 | 1:57:A:LEU:HG | 9 | 0.18 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 5 | 0.18 |
| (2,4018) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HB3 | 4 | 0.18 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 6 | 0.18 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 9 | 0.18 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 20 | 0.18 |
| (2,3990) | 1:26:A:SER:HB3 | 1:25:A:PRO:HB2 | 6 | 0.18 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 6 | 0.18 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 11 | 0.18 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 8 | 0.18 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 11 | 0.18 |
| (2,3958) | 1:109:A:ILE:HD11 | 1:107:A:ASP:H | 18 | 0.18 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 9 | 0.18 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 7 | 0.18 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 2 | 0.18 |
| (2,3904) | 1:119:A:LYS:HE3 | 1:119:A:LYS:H | 13 | 0.18 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 1 | 0.18 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 8 | 0.18 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 20 | 0.18 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 1 | 0.18 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 5 | 0.18 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD12 | 8 | 0.18 |
| (2,3795) | 1:130:A:ALA:HB3 | 1:131:A:GLY:H | 5 | 0.18 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 9 | 0.18 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 12 | 0.18 |
| (2,3748) | 1:0:A:GLY:HA2 | 1:1:A:THR:HG23 | 5 | 0.18 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:82:A:GLU:HG3 | 1 | 0.18 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:84:A:GLU:HB2 | 11 | 0.18 |
| (2,3740) | 1:87:A:VAL:HG23 | 1:86:A:LYS:H | 18 | 0.18 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 11 | 0.18 |
| (2,3728) | 1:89:A:VAL:HG11 | 1:78:A:ARG:HG2 | 20 | 0.18 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 18 | 0.18 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 20 | 0.18 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 9 | 0.18 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 16 | 0.18 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 3 | 0.18 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 4 | 0.18 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 2 | 0.18 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 6 | 0.18 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 12 | 0.18 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 18 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 1 | 0.18 |
| (2,3613) | 1:32:A:ASP:HB3 | 1:123:A:GLU:HB2 | 18 | 0.18 |
| (2,3582) | 1:12:A:ILE:HG13 | 1:11:A:LEU:H | 14 | 0.18 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 4 | 0.18 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 14 | 0.18 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 4 | 0.18 |
| (2,3505) | 1:39:A:VAL:HG13 | 1:37:A:GLN:HE22 | 7 | 0.18 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 14 | 0.18 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD2 | 11 | 0.18 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 14 | 0.18 |
| (2,3365) | 1:112:A:ASP:H | 1:113:A:ASN:HD21 | 3 | 0.18 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 6 | 0.18 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 14 | 0.18 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 20 | 0.18 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 5 | 0.18 |
| (2,3289) | 1:150:A:ILE:HD13 | 1:73:A:ASP:H | 13 | 0.18 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 9 | 0.18 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD2 | 11 | 0.18 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 3 | 0.18 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 6 | 0.18 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 15 | 0.18 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 2 | 0.18 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 4 | 0.18 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 9 | 0.18 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 12 | 0.18 |
| (2,3081) | 1:22:A:TYR:H | 1:22:A:TYR:HE1 | 4 | 0.18 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 5 | 0.18 |
| (2,3068) | 1:17:A:ASN:HB2 | 1:17:A:ASN:HD22 | 13 | 0.18 |
| (2,3030) | 1:12:A:ILE:HG12 | 1:12:A:ILE:H | 2 | 0.18 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 6 | 0.18 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 1 | 0.18 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 19 | 0.18 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD1 | 4 | 0.18 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 11 | 0.18 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 2 | 0.18 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 9 | 0.18 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 18 | 0.18 |
| (2,2581) | 1:98:A:LEU:HD22 | 1:99:A:ARG:H | 14 | 0.18 |
| (2,2571) | 1:96:A:ALA:H | 1:95:A:LYS:HB2 | 1 | 0.18 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 14 | 0.18 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 17 | 0.18 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 11 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 17 | 0.18 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 3 | 0.18 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD11 | 2 | 0.18 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD13 | 16 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 2 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 16 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 17 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 19 | 0.18 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 20 | 0.18 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 4 | 0.18 |
| (2,2352) | 1:55:A:THR:HG21 | 1:60:A:PHE:HZ | 9 | 0.18 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 17 | 0.18 |
| (2,2338) | 1:29:A:LEU:HD23 | 1:130:A:ALA:H | 14 | 0.18 |
| (2,2321) | 1:81:A:LEU:HD23 | 1:87:A:VAL:HB | 8 | 0.18 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG21 | 18 | 0.18 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 14 | 0.18 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD13 | 18 | 0.18 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG11 | 9 | 0.18 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 15 | 0.18 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 16 | 0.18 |
| (2,2095) | 1:134:A:LEU:HD23 | 1:88:A:VAL:H | 3 | 0.18 |
| (2,2095) | 1:134:A:LEU:HD21 | 1:88:A:VAL:H | 4 | 0.18 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 10 | 0.18 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG22 | 9 | 0.18 |
| (2,1973) | 1:157:A:SER:HB2 | 1:158:A:LYS:HG2 | 1 | 0.18 |
| (2,1951) | 1:38:A:THR:HG21 | 1:110:A:PHE:HE2 | 16 | 0.18 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 2 | 0.18 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 3 | 0.18 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 11 | 0.18 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 19 | 0.18 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 3 | 0.18 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 14 | 0.18 |
| (2,1910) | 1:122:A:LEU:HA | 1:125:A:PHE:HE2 | 19 | 0.18 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 19 | 0.18 |
| (2,1885) | 1:22:A:TYR:HA | 1:22:A:TYR:HD2 | 3 | 0.18 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 15 | 0.18 |
| (2,1865) | 1:98:A:LEU:HD13 | 1:94:A:GLY:HA3 | 5 | 0.18 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 10 | 0.18 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 14 | 0.18 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 15 | 0.18 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 17 | 0.18 |
| (2,1784) | 1:83:A:ARG:HG3 | 1:84:A:GLU:H | 7 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 1 | 0.18 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 10 | 0.18 |
| (2,1696) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 4 | 0.18 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 20 | 0.18 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 11 | 0.18 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 15 | 0.18 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 9 | 0.18 |
| (2,1612) | 1:66:A:THR:HG21 | 1:50:A:GLU:HB3 | 18 | 0.18 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 13 | 0.18 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 14 | 0.18 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 4 | 0.18 |
| (2,1522) | 1:57:A:LEU:HD13 | 1:60:A:PHE:HZ | 10 | 0.18 |
| (2,1500) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD2 | 9 | 0.18 |
| (2,1499) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD3 | 6 | 0.18 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 19 | 0.18 |
| (2,1398) | 1:33:A:VAL:HG13 | 1:74:A:PHE:HD2 | 10 | 0.18 |
| (2,1357) | 1:51:A:ILE:HG21 | 1:34:A:SER:H | 15 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 6 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 13 | 0.18 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 17 | 0.18 |
| (2,1337) | 1:67:A:VAL:HG22 | 1:52:A:ARG:H | 18 | 0.18 |
| (2,1326) | 1:12:A:ILE:HG22 | 1:13:A:THR:HA | 5 | 0.18 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 2 | 0.18 |
| (2,1324) | 1:12:A:ILE:HG22 | 1:12:A:ILE:HB | 20 | 0.18 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 3 | 0.18 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 7 | 0.18 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 12 | 0.18 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 15 | 0.18 |
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 19 | 0.18 |
| (2,1310) | 1:149:A:ILE:HG21 | 1:148:A:GLU:H | 7 | 0.18 |
| (2,1276) | 1:115:A:ILE:HD11 | 1:114:A:PHE:HD2 | 20 | 0.18 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG23 | 1 | 0.18 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 20 | 0.18 |
| (2,1212) | 1:29:A:LEU:HD12 | 1:57:A:LEU:H | 7 | 0.18 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 1 | 0.18 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG21 | 14 | 0.18 |
| (2,1137) | 1:59:A:ILE:HD13 | 1:59:A:ILE:HB | 1 | 0.18 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 11 | 0.18 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 18 | 0.18 |
| (2,1055) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HA | 19 | 0.18 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 13 | 0.18 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 18 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 5 | 0.18 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 6 | 0.18 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 8 | 0.18 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 11 | 0.18 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 17 | 0.18 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 1 | 0.18 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 10 | 0.18 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 3 | 0.18 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 14 | 0.18 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 18 | 0.18 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 20 | 0.18 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 16 | 0.18 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 4 | 0.18 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 9 | 0.18 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 16 | 0.18 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 18 | 0.18 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 19 | 0.18 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 20 | 0.18 |
| (2,896) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG2 | 14 | 0.18 |
| (2,863) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HB3 | 5 | 0.18 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 13 | 0.18 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 2 | 0.18 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 3 | 0.18 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 19 | 0.18 |
| (2,623) | 1:129:A:VAL:HG23 | 1:130:A:ALA:HB2 | 4 | 0.18 |
| (2,619) | 1:129:A:VAL:HG11 | 1:129:A:VAL:HG22 | 3 | 0.18 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG21 | 10 | 0.18 |
| (2,598) | 1:129:A:VAL:HG12 | 1:125:A:PHE:HD1 | 5 | 0.18 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 5 | 0.18 |
| (2,538) | 1:143:A:MET:HE3 | 1:151:A:ASP:H | 12 | 0.18 |
| (2,531) | 1:143:A:MET:HE3 | 1:154:A:TYR:HB2 | 15 | 0.18 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 3 | 0.18 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 14 | 0.18 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 18 | 0.18 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 19 | 0.18 |
| (2,488) | 1:126:A:ILE:HG22 | 1:126:A:ILE:HA | 8 | 0.18 |
| (2,381) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HD12 | 16 | 0.18 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD13 | 18 | 0.18 |
| (2,362) | 1:89:A:VAL:HG21 | 1:87:A:VAL:H | 3 | 0.18 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG13 | 19 | 0.18 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 18 | 0.18 |
| (2,311) | 1:92:A:LEU:HD12 | 1:92:A:LEU:H | 18 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 3 | 0.18 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG23 | 11 | 0.18 |
| (2,150) | 1:66:A:THR:HG22 | 1:53:A:VAL:H | 19 | 0.18 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG22 | 14 | 0.18 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 19 | 0.18 |
| (2,14) | 1:32:A:ASP:HB2 | 1:32:A:ASP:H | 14 | 0.18 |
| (1,43) | 1:146:A:GLN:H | 1:142:A:HIS:O | 14 | 0.18 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 7 | 0.17 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 13 | 0.17 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 15 | 0.17 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD12 | 7 | 0.17 |
| (2,4945) | 1:77:A:LEU:HD22 | 1:142:A:HIS:H | 12 | 0.17 |
| (2,4942) | 1:140:A:CYS:H | 1:139:A:ARG:HG2 | 16 | 0.17 |
| (2,4909) | 1:127:A:ASN:H | 1:124:A:GLN:HB3 | 10 | 0.17 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 14 | 0.17 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 3 | 0.17 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 10 | 0.17 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 13 | 0.17 |
| (2,4885) | 1:120:A:GLN:HE21 | 1:116:A:GLU:HB2 | 19 | 0.17 |
| (2,4858) | 1:159:A:ILE:H | 1:138:A:GLU:HA | 13 | 0.17 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD1 | 12 | 0.17 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 18 | 0.17 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 17 | 0.17 |
| (2,4830) | 1:58:A:PRO:HB3 | 1:59:A:ILE:H | 4 | 0.17 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 2 | 0.17 |
| (2,4771) | 1:10:A:ARG:H | 1:9:A:ARG:HB3 | 9 | 0.17 |
| (2,4762) | 1:26:A:SER:HB3 | 1:26:A:SER:H | 6 | 0.17 |
| (2,4741) | 1:5:A:VAL:HG12 | 1:5:A:VAL:H | 2 | 0.17 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 3 | 0.17 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 15 | 0.17 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 19 | 0.17 |
| (2,4714) | 1:101:A:LEU:HD11 | 1:101:A:LEU:H | 18 | 0.17 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 18 | 0.17 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 1 | 0.17 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 7 | 0.17 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 11 | 0.17 |
| (2,4681) | 1:141:A:LEU:HD22 | 1:137:A:ASN:H | 11 | 0.17 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 14 | 0.17 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 15 | 0.17 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 7 | 0.17 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 8 | 0.17 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 20 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 11 | 0.17 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 2 | 0.17 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 7 | 0.17 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 8 | 0.17 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 19 | 0.17 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 20 | 0.17 |
| (2,4658) | 1:44:A:GLY:H | 1:43:A:ARG:HG2 | 6 | 0.17 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 7 | 0.17 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 9 | 0.17 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 17 | 0.17 |
| (2,4576) | 1:54:A:LYS:HD2 | 1:28:A:PHE:HE1 | 7 | 0.17 |
| (2,4575) | 1:101:A:LEU:HD11 | 1:98:A:LEU:HA | 3 | 0.17 |
| (2,4574) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HD2 | 14 | 0.17 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:121:A:GLY:HA3 | 12 | 0.17 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 2 | 0.17 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 13 | 0.17 |
| (2,4497) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HB2 | 17 | 0.17 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 12 | 0.17 |
| (2,4473) | 1:77:A:LEU:HD11 | 1:144:A:PHE:HB2 | 18 | 0.17 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 15 | 0.17 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 19 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD21 | 1 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 3 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD21 | 5 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 6 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 8 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 15 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 16 | 0.17 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 19 | 0.17 |
| (2,4378) | 1:58:A:PRO:HA | 1:22:A:TYR:HD2 | 2 | 0.17 |
| (2,4333) | 1:141:A:LEU:HG | 1:77:A:LEU:HD22 | 17 | 0.17 |
| (2,4326) | 1:33:A:VAL:HG21 | 1:125:A:PHE:HD2 | 2 | 0.17 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 15 | 0.17 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 6 | 0.17 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 14 | 0.17 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 11 | 0.17 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 14 | 0.17 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 19 | 0.17 |
| (2,4287) | 1:86:A:LYS:HE3 | 1:134:A:LEU:HD13 | 14 | 0.17 |
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 14 | 0.17 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 8 | 0.17 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 18 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 2 | 0.17 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 20 | 0.17 |
| (2,4269) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD2 | 8 | 0.17 |
| (2,4246) | 1:20:A:ASP:HB3 | 1:20:A:ASP:HA | 16 | 0.17 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 17 | 0.17 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 18 | 0.17 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 8 | 0.17 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 6 | 0.17 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 19 | 0.17 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 17 | 0.17 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 20 | 0.17 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 6 | 0.17 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 7 | 0.17 |
| (2,4194) | 1:10:A:ARG:HA | 1:10:A:ARG:H | 15 | 0.17 |
| (2,4188) | 1:77:A:LEU:HD23 | 1:141:A:LEU:HB3 | 16 | 0.17 |
| (2,4183) | 1:129:A:VAL:HG12 | 1:141:A:LEU:HD13 | 6 | 0.17 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 8 | 0.17 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 11 | 0.17 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 15 | 0.17 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 8 | 0.17 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 19 | 0.17 |
| (2,4115) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 16 | 0.17 |
| (2,4110) | 1:96:A:ALA:HB3 | 1:97:A:PHE:HB3 | 4 | 0.17 |
| (2,4103) | 1:51:A:ILE:HG21 | 1:60:A:PHE:HE2 | 8 | 0.17 |
| (2,4100) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB2 | 8 | 0.17 |
| (2,4100) | 1:59:A:ILE:HG21 | 1:141:A:LEU:HB2 | 14 | 0.17 |
| (2,4060) | 1:160:A:ARG:HA | 1:161:A:HIS:HD2 | 1 | 0.17 |
| (2,4052) | 1:29:A:LEU:HD22 | 1:57:A:LEU:HG | 4 | 0.17 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 6 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 1 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 2 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 3 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 6 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 11 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 12 | 0.17 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 19 | 0.17 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 9 | 0.17 |
| (2,3987) | 1:26:A:SER:HB3 | 1:27:A:ASN:HB3 | 17 | 0.17 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 5 | 0.17 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 1 | 0.17 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 10 | 0.17 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 13 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 20 | 0.17 |
| (2,3963) | 1:109:A:ILE:HD12 | 1:107:A:ASP:HB3 | 15 | 0.17 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 6 | 0.17 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 16 | 0.17 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 13 | 0.17 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 3 | 0.17 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 3 | 0.17 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 14 | 0.17 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD12 | 11 | 0.17 |
| (2,3833) | 1:127:A:ASN:HA | 1:29:A:LEU:HD22 | 1 | 0.17 |
| (2,3830) | 1:129:A:VAL:HG13 | 1:128:A:LYS:HD2 | 6 | 0.17 |
| (2,3790) | 1:143:A:MET:HA | 1:147:A:ASP:HB2 | 1 | 0.17 |
| (2,3775) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 19 | 0.17 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 5 | 0.17 |
| (2,3755) | 1:48:A:THR:HG21 | 1:68:A:ARG:HD3 | 8 | 0.17 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 2 | 0.17 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 10 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 1 | 0.17 |
| (2,3698) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HB2 | 2 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 3 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 4 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 7 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 9 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 10 | 0.17 |
| (2,3698) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HB2 | 11 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 12 | 0.17 |
| (2,3698) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HB2 | 13 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 16 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 17 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 18 | 0.17 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 20 | 0.17 |
| (2,3688) | 1:150:A:ILE:HD13 | 1:77:A:LEU:H | 9 | 0.17 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 3 | 0.17 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 10 | 0.17 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 17 | 0.17 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 18 | 0.17 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 10 | 0.17 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 17 | 0.17 |
| (2,3632) | 1:82:A:GLU:HA | 1:84:A:GLU:H | 3 | 0.17 |
| (2,3630) | 1:3:A:GLU:HA | 1:3:A:GLU:HG3 | 9 | 0.17 |
| (2,3622) | 1:108:A:GLY:HA2 | 1:109:A:ILE:HG12 | 17 | 0.17 |
| (2,3567) | 1:68:A:ARG:H | 1:149:A:ILE:HG21 | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3537) | 1:100:A:GLN:HE21 | 1:100:A:GLN:HB2 | 13 | 0.17 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 18 | 0.17 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 15 | 0.17 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 3 | 0.17 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD2 | 14 | 0.17 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 8 | 0.17 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 11 | 0.17 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 13 | 0.17 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 17 | 0.17 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 19 | 0.17 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 17 | 0.17 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 18 | 0.17 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 8 | 0.17 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 15 | 0.17 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD12 | 8 | 0.17 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 8 | 0.17 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 11 | 0.17 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 13 | 0.17 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 18 | 0.17 |
| (2,3120) | 1:27:A:ASN:HD21 | 1:57:A:LEU:HD22 | 5 | 0.17 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB3 | 1 | 0.17 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 2 | 0.17 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 5 | 0.17 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 17 | 0.17 |
| (2,3027) | 1:10:A:ARG:HB2 | 1:11:A:LEU:H | 1 | 0.17 |
| (2,3023) | 1:10:A:ARG:H | 1:11:A:LEU:HD21 | 15 | 0.17 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 4 | 0.17 |
| (2,3000) | 1:38:A:THR:HG21 | 1:39:A:VAL:H | 20 | 0.17 |
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 15 | 0.17 |
| (2,2979) | 1:2:A:ALA:HB2 | 1:3:A:GLU:H | 4 | 0.17 |
| (2,2979) | 1:2:A:ALA:HB1 | 1:3:A:GLU:H | 13 | 0.17 |
| (2,2860) | 1:105:A:GLY:H | 1:103:A:PHE:HD1 | 5 | 0.17 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 3 | 0.17 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 11 | 0.17 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG23 | 12 | 0.17 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 16 | 0.17 |
| (2,2444) | 1:67:A:VAL:HG13 | 1:68:A:ARG:H | 4 | 0.17 |
| (2,2405) | 1:109:A:ILE:HB | 1:115:A:ILE:HA | 19 | 0.17 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD13 | 9 | 0.17 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD12 | 10 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 1 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 4 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 5 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 6 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 7 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 8 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 9 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 10 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 11 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 12 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 13 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 14 | 0.17 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 18 | 0.17 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 5 | 0.17 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 7 | 0.17 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 8 | 0.17 |
| (2,2373) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HE1 | 2 | 0.17 |
| (2,2358) | 1:85:A:SER:HB2 | 1:81:A:LEU:HD22 | 11 | 0.17 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 10 | 0.17 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 4 | 0.17 |
| (2,2231) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG22 | 13 | 0.17 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 2 | 0.17 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 10 | 0.17 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG23 | 14 | 0.17 |
| (2,2142) | 1:31:A:ILE:HG21 | 1:33:A:VAL:HG12 | 8 | 0.17 |
| (2,2131) | 1:29:A:LEU:HD22 | 1:136:A:GLN:HE21 | 17 | 0.17 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 17 | 0.17 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 10 | 0.17 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 20 | 0.17 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 7 | 0.17 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 16 | 0.17 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 20 | 0.17 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 14 | 0.17 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 18 | 0.17 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 20 | 0.17 |
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 5 | 0.17 |
| (2,1915) | 1:134:A:LEU:HD21 | 1:86:A:LYS:HB3 | 5 | 0.17 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 7 | 0.17 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 3 | 0.17 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 4 | 0.17 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 20 | 0.17 |
| (2,1800) | 1:84:A:GLU:HG3 | 1:84:A:GLU:H | 4 | 0.17 |
| (2,1758) | 1:75:A:GLU:HB3 | 1:92:A:LEU:HD22 | 16 | 0.17 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1696) | 1:115:A:ILE:HG22 | 1:36:A:PRO:HG2 | 5 | 0.17 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 9 | 0.17 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 7 | 0.17 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 13 | 0.17 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 7 | 0.17 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 4 | 0.17 |
| (2,1631) | 1:158:A:LYS:HG3 | 1:137:A:ASN:HD21 | 19 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 5 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 6 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 7 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 10 | 0.17 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 20 | 0.17 |
| (2,1580) | 1:83:A:ARG:HG3 | 1:83:A:ARG:HA | 3 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 1 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 2 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 3 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 4 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 5 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 6 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 7 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 8 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 9 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 10 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 11 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 12 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 13 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 14 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 15 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 16 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 17 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 18 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 19 | 0.17 |
| (2,1563) | 1:140:A:CYS:HB3 | 1:140:A:CYS:HB2 | 20 | 0.17 |
| (2,1499) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD3 | 17 | 0.17 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 3 | 0.17 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 10 | 0.17 |
| (2,1470) | 1:137:A:ASN:HB2 | 1:137:A:ASN:HD22 | 16 | 0.17 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 12 | 0.17 |
| (2,1430) | 1:149:A:ILE:HB | 1:148:A:GLU:HB2 | 6 | 0.17 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 12 | 0.17 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 16 | 0.17 |
| (2,1406) | 1:39:A:VAL:HG21 | 1:39:A:VAL:HA | 17 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 18 | 0.17 |
| (2,1386) | 1:135:A:ALA:HB1 | 1:130:A:ALA:H | 3 | 0.17 |
| (2,1351) | 1:51:A:ILE:HG23 | 1:66:A:THR:HA | 13 | 0.17 |
| (2,1339) | 1:59:A:ILE:HG22 | 1:58:A:PRO:HD3 | 20 | 0.17 |
| (2,1328) | 1:115:A:ILE:HG23 | 1:114:A:PHE:HE2 | 7 | 0.17 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 5 | 0.17 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 8 | 0.17 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 13 | 0.17 |
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 10 | 0.17 |
| (2,1310) | 1:149:A:ILE:HG21 | 1:148:A:GLU:H | 20 | 0.17 |
| (2,1294) | 1:51:A:ILE:HD12 | 1:67:A:VAL:HG23 | 13 | 0.17 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG22 | 7 | 0.17 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG23 | 12 | 0.17 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 12 | 0.17 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG22 | 8 | 0.17 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG21 | 14 | 0.17 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 5 | 0.17 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 14 | 0.17 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 6 | 0.17 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 1 | 0.17 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 18 | 0.17 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 9 | 0.17 |
| (2,997) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HB2 | 13 | 0.17 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 2 | 0.17 |
| (2,996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 10 | 0.17 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 12 | 0.17 |
| (2,996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 20 | 0.17 |
| (2,993) | 1:102:A:PRO:HD2 | 1:101:A:LEU:HD23 | 9 | 0.17 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 20 | 0.17 |
| (2,982) | 1:12:A:ILE:HA | 1:12:A:ILE:HG13 | 9 | 0.17 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 2 | 0.17 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 18 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 1 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 2 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 6 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 7 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 8 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 11 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 12 | 0.17 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 15 | 0.17 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 10 | 0.17 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 2 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,680) | 1:55:A:THR:HG21 | 1:63:A:LYS:HB3 | 6 | 0.17 |
| (2,676) | 1:159:A:ILE:HA | 1:159:A:ILE:HG22 | 9 | 0.17 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 1 | 0.17 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 8 | 0.17 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 10 | 0.17 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 4 | 0.17 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG22 | 15 | 0.17 |
| (2,619) | 1:129:A:VAL:HG13 | 1:129:A:VAL:HG23 | 16 | 0.17 |
| (2,549) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG12 | 14 | 0.17 |
| (2,542) | 1:143:A:MET:HE3 | 1:154:A:TYR:HE1 | 5 | 0.17 |
| (2,542) | 1:143:A:MET:HE1 | 1:154:A:TYR:HE1 | 12 | 0.17 |
| (2,541) | 1:143:A:MET:HE3 | 1:144:A:PHE:HD1 | 13 | 0.17 |
| (2,540) | 1:143:A:MET:HE2 | 1:76:A:TRP:HZ2 | 15 | 0.17 |
| (2,539) | 1:143:A:MET:HE3 | 1:154:A:TYR:H | 2 | 0.17 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 6 | 0.17 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 12 | 0.17 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 13 | 0.17 |
| (2,516) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HA | 7 | 0.17 |
| (2,466) | 1:47:A:THR:HG23 | 1:49:A:TYR:HE2 | 12 | 0.17 |
| (2,465) | 1:47:A:THR:HG23 | 1:114:A:PHE:HE2 | 19 | 0.17 |
| (2,454) | 1:141:A:LEU:HD11 | 1:77:A:LEU:HD11 | 18 | 0.17 |
| (2,442) | 1:105:A:GLY:HA3 | 1:104:A:ARG:HB2 | 4 | 0.17 |
| (2,428) | 1:13:A:THR:HG22 | 1:12:A:ILE:H | 12 | 0.17 |
| (2,375) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HG3 | 20 | 0.17 |
| (2,372) | 1:89:A:VAL:HG12 | 1:81:A:LEU:HB2 | 1 | 0.17 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 2 | 0.17 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 13 | 0.17 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 6 | 0.17 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 3 | 0.17 |
| (2,310) | 1:92:A:LEU:HD23 | 1:92:A:LEU:H | 16 | 0.17 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 17 | 0.17 |
| (2,272) | 1:22:A:TYR:HB2 | 1:28:A:PHE:HD2 | 5 | 0.17 |
| (2,257) | 1:150:A:ILE:HD13 | 1:152:A:LYS:HE2 | 19 | 0.17 |
| (2,241) | 1:150:A:ILE:HG23 | 1:151:A:ASP:H | 2 | 0.17 |
| (2,166) | 1:61:A:LYS:HA | 1:61:A:LYS:HG3 | 10 | 0.17 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 12 | 0.17 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG21 | 11 | 0.17 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG22 | 17 | 0.17 |
| (2,46) | 1:83:A:ARG:HB3 | 1:83:A:ARG:HD3 | 1 | 0.17 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 10 | 0.17 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 8 | 0.16 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 18 | 0.16 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 1 | 0.16 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 17 | 0.16 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 3 | 0.16 |
| (2,4945) | 1:77:A:LEU:HD21 | 1:142:A:HIS:H | 3 | 0.16 |
| (2,4942) | 1:140:A:CYS:H | 1:139:A:ARG:HG2 | 2 | 0.16 |
| (2,4928) | 1:137:A:ASN:HD21 | 1:160:A:ARG:HB2 | 8 | 0.16 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG12 | 16 | 0.16 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 3 | 0.16 |
| (2,4900) | 1:124:A:GLN:HE21 | 1:128:A:LYS:HE2 | 4 | 0.16 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 9 | 0.16 |
| (2,4862) | 1:158:A:LYS:H | 1:139:A:ARG:HB2 | 19 | 0.16 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD2 | 4 | 0.16 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD2 | 11 | 0.16 |
| (2,4831) | 1:64:A:GLU:HG2 | 1:64:A:GLU:H | 1 | 0.16 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 2 | 0.16 |
| (2,4821) | 1:51:A:ILE:H | 1:68:A:ARG:HG2 | 18 | 0.16 |
| (2,4816) | 1:81:A:LEU:HD23 | 1:81:A:LEU:H | 4 | 0.16 |
| (2,4777) | 1:11:A:LEU:HD13 | 1:12:A:ILE:H | 3 | 0.16 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 18 | 0.16 |
| (2,4762) | 1:26:A:SER:HB3 | 1:26:A:SER:H | 4 | 0.16 |
| (2,4755) | 1:0:A:GLY:HA3 | 1:1:A:THR:H | 15 | 0.16 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 7 | 0.16 |
| (2,4741) | 1:5:A:VAL:HG22 | 1:5:A:VAL:H | 16 | 0.16 |
| (2,4736) | 1:135:A:ALA:H | 1:138:A:GLU:HB2 | 13 | 0.16 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 18 | 0.16 |
| (2,4706) | 1:46:A:PHE:H | 1:38:A:THR:HG22 | 4 | 0.16 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 10 | 0.16 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 20 | 0.16 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 2 | 0.16 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 13 | 0.16 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD13 | 1 | 0.16 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD11 | 3 | 0.16 |
| (2,4682) | 1:81:A:LEU:HD22 | 1:137:A:ASN:H | 3 | 0.16 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 17 | 0.16 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE3 | 10 | 0.16 |
| (2,4659) | 1:0:A:GLY:H | 1:-1:A:VAL:HG13 | 16 | 0.16 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 4 | 0.16 |
| (2,4629) | 1:99:A:ARG:H | 1:100:A:GLN:HG2 | 19 | 0.16 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 4 | 0.16 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 8 | 0.16 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4590) | 1:36:A:PRO:HG2 | 1:35:A:ASN:H | 8 | 0.16 |
| (2,4576) | 1:54:A:LYS:HD2 | 1:28:A:PHE:HE1 | 6 | 0.16 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 15 | 0.16 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 3 | 0.16 |
| (2,4559) | 1:66:A:THR:HB | 1:52:A:ARG:HB2 | 10 | 0.16 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 8 | 0.16 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 14 | 0.16 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 20 | 0.16 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 20 | 0.16 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 14 | 0.16 |
| (2,4479) | 1:89:A:VAL:HB | 1:81:A:LEU:HD13 | 7 | 0.16 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 5 | 0.16 |
| (2,4423) | 1:33:A:VAL:HG22 | 1:122:A:LEU:HG | 11 | 0.16 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 12 | 0.16 |
| (2,4371) | 1:62:A:LEU:HB3 | 1:62:A:LEU:HD22 | 6 | 0.16 |
| (2,4367) | 1:62:A:LEU:HD22 | 1:61:A:LYS:H | 15 | 0.16 |
| (2,4326) | 1:33:A:VAL:HG22 | 1:125:A:PHE:HD2 | 15 | 0.16 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 19 | 0.16 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 4 | 0.16 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 6 | 0.16 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 19 | 0.16 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD3 | 20 | 0.16 |
| (2,4268) | 1:52:A:ARG:HB3 | 1:52:A:ARG:HD3 | 20 | 0.16 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 14 | 0.16 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 17 | 0.16 |
| (2,4246) | 1:20:A:ASP:HB3 | 1:20:A:ASP:HA | 14 | 0.16 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 2 | 0.16 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 16 | 0.16 |
| (2,4182) | 1:141:A:LEU:HD11 | 1:143:A:MET:HG2 | 7 | 0.16 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 10 | 0.16 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 1 | 0.16 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 3 | 0.16 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 8 | 0.16 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 8 | 0.16 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG3 | 17 | 0.16 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 15 | 0.16 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 16 | 0.16 |
| (2,4129) | 1:18:A:LEU:HA | 1:18:A:LEU:HB3 | 17 | 0.16 |
| (2,4112) | 1:81:A:LEU:HD12 | 1:135:A:ALA:HB2 | 7 | 0.16 |
| (2,4100) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB2 | 16 | 0.16 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 4 | 0.16 |
| (2,4094) | 1:115:A:ILE:HG21 | 1:119:A:LYS:H | 2 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4094) | 1:115:A:ILE:HG22 | 1:119:A:LYS:H | 12 | 0.16 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 20 | 0.16 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 10 | 0.16 |
| (2,4079) | 1:152:A:LYS:HB3 | 1:152:A:LYS:HD3 | 15 | 0.16 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD12 | 3 | 0.16 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 11 | 0.16 |
| (2,4044) | 1:45:A:ARG:HG2 | 1:46:A:PHE:HD1 | 13 | 0.16 |
| (2,4037) | 1:122:A:LEU:HD11 | 1:33:A:VAL:HG11 | 20 | 0.16 |
| (2,4018) | 1:11:A:LEU:HB2 | 1:11:A:LEU:HD22 | 18 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 4 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 5 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 10 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 14 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD11 | 1:101:A:LEU:HG | 15 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD12 | 1:101:A:LEU:HG | 16 | 0.16 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 17 | 0.16 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 8 | 0.16 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 15 | 0.16 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 19 | 0.16 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 2 | 0.16 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 20 | 0.16 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 6 | 0.16 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 11 | 0.16 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 19 | 0.16 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 17 | 0.16 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 4 | 0.16 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 11 | 0.16 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 14 | 0.16 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 7 | 0.16 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 15 | 0.16 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 9 | 0.16 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 16 | 0.16 |
| (2,3845) | 1:60:A:PHE:HB3 | 1:55:A:THR:HG21 | 13 | 0.16 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 8 | 0.16 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 15 | 0.16 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 1 | 0.16 |
| (2,3800) | 1:129:A:VAL:HA | 1:88:A:VAL:HG13 | 3 | 0.16 |
| (2,3775) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG23 | 5 | 0.16 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 1 | 0.16 |
| (2,3708) | 1:92:A:LEU:HD12 | 1:78:A:ARG:H | 6 | 0.16 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 5 | 0.16 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 6 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 8 | 0.16 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 14 | 0.16 |
| (2,3698) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HB2 | 15 | 0.16 |
| (2,3698) | 1:17:A:ASN:HB3 | 1:17:A:ASN:HB2 | 19 | 0.16 |
| (2,3693) | 1:150:A:ILE:HG21 | 1:152:A:LYS:HD3 | 18 | 0.16 |
| (2,3690) | 1:150:A:ILE:HD11 | 1:143:A:MET:HG3 | 13 | 0.16 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 1 | 0.16 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 13 | 0.16 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 16 | 0.16 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 18 | 0.16 |
| (2,3659) | 1:66:A:THR:HB | 1:52:A:ARG:HD3 | 13 | 0.16 |
| (2,3657) | 1:66:A:THR:HG22 | 1:68:A:ARG:H | 4 | 0.16 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 1 | 0.16 |
| (2,3619) | 1:42:A:GLY:HA2 | 1:41:A:VAL:HA | 16 | 0.16 |
| (2,3582) | 1:12:A:ILE:HG13 | 1:11:A:LEU:H | 5 | 0.16 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 14 | 0.16 |
| (2,3567) | 1:68:A:ARG:H | 1:149:A:ILE:HG23 | 10 | 0.16 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 14 | 0.16 |
| (2,3408) | 1:143:A:MET:H | 1:144:A:PHE:HD1 | 13 | 0.16 |
| (2,3378) | 1:112:A:ASP:HB3 | 1:113:A:ASN:H | 17 | 0.16 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 1 | 0.16 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 18 | 0.16 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 18 | 0.16 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD2 | 20 | 0.16 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 4 | 0.16 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 9 | 0.16 |
| (2,3249) | 1:62:A:LEU:H | 1:60:A:PHE:HD2 | 20 | 0.16 |
| (2,3248) | 1:129:A:VAL:HG21 | 1:132:A:HIS:H | 9 | 0.16 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 10 | 0.16 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 2 | 0.16 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 12 | 0.16 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG23 | 13 | 0.16 |
| (2,3170) | 1:38:A:THR:HG22 | 1:38:A:THR:H | 6 | 0.16 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 14 | 0.16 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 17 | 0.16 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 19 | 0.16 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 17 | 0.16 |
| (2,3081) | 1:22:A:TYR:H | 1:22:A:TYR:HE2 | 2 | 0.16 |
| (2,3024) | 1:11:A:LEU:HD12 | 1:10:A:ARG:H | 17 | 0.16 |
| (2,3000) | 1:38:A:THR:HG22 | 1:39:A:VAL:H | 6 | 0.16 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 14 | 0.16 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD13 | 3 | 0.16 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD11 | 4 | 0.16 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 7 | 0.16 |
| (2,2678) | 1:155:A:THR:H | 1:154:A:TYR:HE2 | 17 | 0.16 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG23 | 10 | 0.16 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 7 | 0.16 |
| (2,2545) | 1:85:A:SER:H | 1:87:A:VAL:H | 3 | 0.16 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 5 | 0.16 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 5 | 0.16 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 4 | 0.16 |
| (2,2482) | 1:74:A:PHE:H | 1:71:A:TYR:HE1 | 17 | 0.16 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD12 | 4 | 0.16 |
| (2,2404) | 1:112:A:ASP:HB3 | 1:115:A:ILE:HD12 | 5 | 0.16 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 3 | 0.16 |
| (2,2395) | 1:91:A:PRO:HB2 | 1:91:A:PRO:HD2 | 15 | 0.16 |
| (2,2392) | 1:61:A:LYS:HB3 | 1:60:A:PHE:HA | 8 | 0.16 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 6 | 0.16 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 9 | 0.16 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 12 | 0.16 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 3 | 0.16 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 8 | 0.16 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 13 | 0.16 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 14 | 0.16 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 18 | 0.16 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 9 | 0.16 |
| (2,2232) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HD1 | 14 | 0.16 |
| (2,2231) | 1:81:A:LEU:HD11 | 1:89:A:VAL:HG22 | 16 | 0.16 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 8 | 0.16 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 15 | 0.16 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 5 | 0.16 |
| (2,2149) | 1:33:A:VAL:HG12 | 1:32:A:ASP:H | 20 | 0.16 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 1 | 0.16 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 9 | 0.16 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 18 | 0.16 |
| (2,1952) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG22 | 7 | 0.16 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 5 | 0.16 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 6 | 0.16 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 9 | 0.16 |
| (2,1929) | 1:141:A:LEU:HD23 | 1:138:A:GLU:H | 17 | 0.16 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 7 | 0.16 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 8 | 0.16 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 19 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1915) | 1:134:A:LEU:HD23 | 1:86:A:LYS:HB3 | 15 | 0.16 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 16 | 0.16 |
| (2,1896) | 1:115:A:ILE:HB | 1:114:A:PHE:HE2 | 8 | 0.16 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 8 | 0.16 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 6 | 0.16 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 19 | 0.16 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 17 | 0.16 |
| (2,1777) | 1:80:A:GLU:HG2 | 1:80:A:GLU:H | 13 | 0.16 |
| (2,1756) | 1:92:A:LEU:HD13 | 1:75:A:GLU:HB2 | 7 | 0.16 |
| (2,1750) | 1:80:A:GLU:HA | 1:84:A:GLU:H | 1 | 0.16 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 18 | 0.16 |
| (2,1728) | 1:63:A:LYS:HE2 | 1:63:A:LYS:HA | 11 | 0.16 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 4 | 0.16 |
| (2,1700) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HD2 | 19 | 0.16 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 1 | 0.16 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 11 | 0.16 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 7 | 0.16 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 11 | 0.16 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 2 | 0.16 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 7 | 0.16 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 17 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 1 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 2 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 3 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 4 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 8 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 11 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 12 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 16 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 17 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 18 | 0.16 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 19 | 0.16 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 12 | 0.16 |
| (2,1516) | 1:57:A:LEU:HD12 | 1:57:A:LEU:HD21 | 9 | 0.16 |
| (2,1511) | 1:59:A:ILE:HG23 | 1:57:A:LEU:HG | 3 | 0.16 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 4 | 0.16 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 11 | 0.16 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 11 | 0.16 |
| (2,1499) | 1:57:A:LEU:HD23 | 1:58:A:PRO:HD3 | 12 | 0.16 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 16 | 0.16 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 18 | 0.16 |
| (2,1398) | 1:33:A:VAL:HG12 | 1:74:A:PHE:HD2 | 3 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1381) | 1:87:A:VAL:HG23 | 1:135:A:ALA:HB3 | 8 | 0.16 |
| (2,1371) | 1:21:A:ALA:HB3 | 1:22:A:TYR:HD1 | 15 | 0.16 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG21 | 19 | 0.16 |
| (2,1339) | 1:59:A:ILE:HG23 | 1:58:A:PRO:HD3 | 14 | 0.16 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 2 | 0.16 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 18 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 3 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 4 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 5 | 0.16 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 11 | 0.16 |
| (2,1299) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HB | 6 | 0.16 |
| (2,1290) | 1:51:A:ILE:HD12 | 1:49:A:TYR:HB3 | 9 | 0.16 |
| (2,1276) | 1:115:A:ILE:HD12 | 1:114:A:PHE:HD2 | 15 | 0.16 |
| (2,1267) | 1:152:A:LYS:HB2 | 1:150:A:ILE:HG22 | 5 | 0.16 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 17 | 0.16 |
| (2,1203) | 1:29:A:LEU:HD21 | 1:31:A:ILE:HD11 | 2 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 1 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 8 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 14 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 16 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 17 | 0.16 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 19 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD11 | 1:59:A:ILE:HB | 2 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD11 | 1:59:A:ILE:HB | 6 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 8 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 10 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 12 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 15 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD13 | 1:59:A:ILE:HB | 18 | 0.16 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 20 | 0.16 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 14 | 0.16 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 1 | 0.16 |
| (2,995) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 2 | 0.16 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 3 | 0.16 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 19 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 1 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 5 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 10 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 12 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 13 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 14 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 16 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 17 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 19 | 0.16 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 20 | 0.16 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 8 | 0.16 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 3 | 0.16 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 10 | 0.16 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 13 | 0.16 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 14 | 0.16 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 20 | 0.16 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 12 | 0.16 |
| (2,954) | 1:148:A:GLU:HB2 | 1:149:A:ILE:H | 19 | 0.16 |
| (2,870) | 1:115:A:ILE:HD12 | 1:36:A:PRO:HB3 | 11 | 0.16 |
| (2,870) | 1:115:A:ILE:HD12 | 1:36:A:PRO:HB3 | 16 | 0.16 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 11 | 0.16 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 19 | 0.16 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 9 | 0.16 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 18 | 0.16 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 4 | 0.16 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 5 | 0.16 |
| (2,634) | 1:133:A:PRO:HB2 | 1:133:A:PRO:HD2 | 3 | 0.16 |
| (2,598) | 1:129:A:VAL:HG12 | 1:125:A:PHE:HD1 | 4 | 0.16 |
| (2,598) | 1:129:A:VAL:HG11 | 1:125:A:PHE:HD1 | 7 | 0.16 |
| (2,596) | 1:129:A:VAL:HG13 | 1:128:A:LYS:H | 6 | 0.16 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 12 | 0.16 |
| (2,596) | 1:129:A:VAL:HG13 | 1:128:A:LYS:H | 17 | 0.16 |
| (2,559) | 1:150:A:ILE:HG22 | 1:143:A:MET:HB3 | 11 | 0.16 |
| (2,541) | 1:143:A:MET:HE3 | 1:144:A:PHE:HD2 | 14 | 0.16 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 1 | 0.16 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 5 | 0.16 |
| (2,531) | 1:143:A:MET:HE1 | 1:154:A:TYR:HB2 | 11 | 0.16 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 6 | 0.16 |
| (2,526) | 1:122:A:LEU:HD11 | 1:75:A:GLU:H | 12 | 0.16 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 1 | 0.16 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG11 | 8 | 0.16 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD11 | 1 | 0.16 |
| (2,372) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HB2 | 19 | 0.16 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG21 | 9 | 0.16 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG23 | 16 | 0.16 |
| (2,362) | 1:89:A:VAL:HG22 | 1:87:A:VAL:H | 14 | 0.16 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 11 | 0.16 |
| (2,272) | 1:22:A:TYR:HB2 | 1:28:A:PHE:HD2 | 14 | 0.16 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 13 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 8 | 0.16 |
| (2,194) | 1:58:A:PRO:HA | 1:58:A:PRO:HB2 | 16 | 0.16 |
| (2,133) | 1:67:A:VAL:HG11 | 1:66:A:THR:H | 14 | 0.16 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 4 | 0.16 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 5 | 0.16 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 17 | 0.16 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 19 | 0.16 |
| (2,46) | 1:83:A:ARG:HB3 | 1:83:A:ARG:HD3 | 9 | 0.16 |
| (2,4973) | 1:137:A:ASN:HD21 | 1:159:A:ILE:HG22 | 2 | 0.15 |
| (2,4973) | 1:59:A:ILE:HD12 | 1:137:A:ASN:HD21 | 19 | 0.15 |
| (2,4966) | 1:76:A:TRP:HE1 | 1:80:A:GLU:H | 4 | 0.15 |
| (2,4945) | 1:77:A:LEU:HD23 | 1:142:A:HIS:H | 11 | 0.15 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD13 | 13 | 0.15 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 4 | 0.15 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 20 | 0.15 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 1 | 0.15 |
| (2,4859) | 1:158:A:LYS:H | 1:158:A:LYS:HD2 | 11 | 0.15 |
| (2,4852) | 1:97:A:PHE:HB3 | 1:96:A:ALA:H | 2 | 0.15 |
| (2,4850) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 6 | 0.15 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 10 | 0.15 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 20 | 0.15 |
| (2,4832) | 1:63:A:LYS:HE2 | 1:64:A:GLU:H | 5 | 0.15 |
| (2,4792) | 1:28:A:PHE:H | 1:29:A:LEU:HA | 11 | 0.15 |
| (2,4760) | 1:5:A:VAL:HG21 | 1:4:A:THR:H | 11 | 0.15 |
| (2,4727) | 1:33:A:VAL:HG21 | 1:50:A:GLU:H | 9 | 0.15 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 16 | 0.15 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 8 | 0.15 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 1 | 0.15 |
| (2,4702) | 1:64:A:GLU:HB3 | 1:64:A:GLU:H | 4 | 0.15 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD3 | 6 | 0.15 |
| (2,4700) | 1:44:A:GLY:H | 1:43:A:ARG:HD2 | 13 | 0.15 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 19 | 0.15 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 12 | 0.15 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 16 | 0.15 |
| (2,4681) | 1:141:A:LEU:HD23 | 1:137:A:ASN:H | 2 | 0.15 |
| (2,4681) | 1:141:A:LEU:HD21 | 1:137:A:ASN:H | 9 | 0.15 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 10 | 0.15 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 13 | 0.15 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 15 | 0.15 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 1 | 0.15 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 9 | 0.15 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 10 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 12 | 0.15 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 20 | 0.15 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG13 | 3 | 0.15 |
| (2,4627) | 1:94:A:GLY:H | 1:93:A:PRO:HG2 | 2 | 0.15 |
| (2,4620) | 1:82:A:GLU:HA | 1:85:A:SER:H | 3 | 0.15 |
| (2,4574) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HD2 | 12 | 0.15 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 14 | 0.15 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 14 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:88:A:VAL:HA | 1 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 2 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 3 | 0.15 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 19 | 0.15 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 9 | 0.15 |
| (2,4536) | 1:92:A:LEU:HD12 | 1:125:A:PHE:HE1 | 20 | 0.15 |
| (2,4534) | 1:149:A:ILE:HG22 | 1:150:A:ILE:HG13 | 1 | 0.15 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 2 | 0.15 |
| (2,4518) | 1:115:A:ILE:HD11 | 1:113:A:ASN:H | 14 | 0.15 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 12 | 0.15 |
| (2,4490) | 1:128:A:LYS:HD3 | 1:90:A:PRO:HB3 | 9 | 0.15 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 10 | 0.15 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 9 | 0.15 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 3 | 0.15 |
| (2,4367) | 1:62:A:LEU:HD21 | 1:61:A:LYS:H | 10 | 0.15 |
| (2,4365) | 1:145:A:LEU:HD23 | 1:146:A:GLN:HG3 | 20 | 0.15 |
| (2,4350) | 1:130:A:ALA:HB3 | 1:145:A:LEU:HD22 | 7 | 0.15 |
| (2,4326) | 1:33:A:VAL:HG21 | 1:125:A:PHE:HD2 | 4 | 0.15 |
| (2,4325) | 1:33:A:VAL:HG22 | 1:119:A:LYS:HG3 | 8 | 0.15 |
| (2,4314) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HD12 | 19 | 0.15 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 3 | 0.15 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 13 | 0.15 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 19 | 0.15 |
| (2,4308) | 1:99:A:ARG:HA | 1:99:A:ARG:HD2 | 1 | 0.15 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 20 | 0.15 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 16 | 0.15 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 18 | 0.15 |
| (2,4291) | 1:64:A:GLU:HG2 | 1:54:A:LYS:HE2 | 9 | 0.15 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 2 | 0.15 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 12 | 0.15 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 5 | 0.15 |
| (2,4246) | 1:20:A:ASP:HB3 | 1:20:A:ASP:HA | 7 | 0.15 |
| (2,4246) | 1:20:A:ASP:HB3 | 1:20:A:ASP:HA | 20 | 0.15 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 2 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4208) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HG3 | 9 | 0.15 |
| (2,4194) | 1:10:A:ARG:HA | 1:10:A:ARG:H | 12 | 0.15 |
| (2,4192) | 1:50:A:GLU:HG2 | 1:52:A:ARG:HD3 | 18 | 0.15 |
| (2,4186) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HB3 | 20 | 0.15 |
| (2,4176) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HD2 | 5 | 0.15 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 7 | 0.15 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 11 | 0.15 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 13 | 0.15 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD13 | 15 | 0.15 |
| (2,4159) | 1:53:A:VAL:HG13 | 1:66:A:THR:HA | 9 | 0.15 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 7 | 0.15 |
| (2,4124) | 1:136:A:GLN:HG2 | 1:141:A:LEU:HD22 | 1 | 0.15 |
| (2,4103) | 1:51:A:ILE:HG23 | 1:60:A:PHE:HE2 | 1 | 0.15 |
| (2,4102) | 1:51:A:ILE:HG21 | 1:53:A:VAL:HB | 4 | 0.15 |
| (2,4102) | 1:51:A:ILE:HG22 | 1:53:A:VAL:HB | 10 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 3 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 5 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 9 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 10 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 12 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 13 | 0.15 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 14 | 0.15 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 7 | 0.15 |
| (2,4058) | 1:29:A:LEU:HD13 | 1:31:A:ILE:HA | 6 | 0.15 |
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 11 | 0.15 |
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 17 | 0.15 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 8 | 0.15 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD13 | 14 | 0.15 |
| (2,4010) | 1:139:A:ARG:HB3 | 1:141:A:LEU:H | 1 | 0.15 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 12 | 0.15 |
| (2,3995) | 1:11:A:LEU:HA | 1:11:A:LEU:HG | 3 | 0.15 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 2 | 0.15 |
| (2,3984) | 1:104:A:ARG:HD2 | 1:104:A:ARG:HA | 6 | 0.15 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 17 | 0.15 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 10 | 0.15 |
| (2,3971) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 14 | 0.15 |
| (2,3930) | 1:119:A:LYS:HE3 | 1:116:A:GLU:HG2 | 20 | 0.15 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 12 | 0.15 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 9 | 0.15 |
| (2,3895) | 1:120:A:GLN:HA | 1:122:A:LEU:H | 15 | 0.15 |
| (2,3887) | 1:122:A:LEU:HD21 | 1:125:A:PHE:HD2 | 16 | 0.15 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD2 | 1 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3849) | 1:53:A:VAL:HG22 | 1:55:A:THR:HG23 | 15 | 0.15 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 14 | 0.15 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 16 | 0.15 |
| (2,3815) | 1:14:A:LYS:HB3 | 1:14:A:LYS:HG3 | 3 | 0.15 |
| (2,3815) | 1:14:A:LYS:HB3 | 1:14:A:LYS:HG3 | 4 | 0.15 |
| (2,3815) | 1:14:A:LYS:HB3 | 1:14:A:LYS:HG3 | 20 | 0.15 |
| (2,3788) | 1:152:A:LYS:HA | 1:152:A:LYS:HD2 | 3 | 0.15 |
| (2,3783) | 1:143:A:MET:HE3 | 1:143:A:MET:HB2 | 17 | 0.15 |
| (2,3770) | 1:126:A:ILE:HG23 | 1:123:A:GLU:H | 10 | 0.15 |
| (2,3763) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 15 | 0.15 |
| (2,3759) | 1:53:A:VAL:HG21 | 1:30:A:GLU:H | 15 | 0.15 |
| (2,3729) | 1:89:A:VAL:HG23 | 1:129:A:VAL:HB | 6 | 0.15 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD2 | 16 | 0.15 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 17 | 0.15 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 20 | 0.15 |
| (2,3690) | 1:150:A:ILE:HD13 | 1:143:A:MET:HG3 | 2 | 0.15 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 2 | 0.15 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD12 | 18 | 0.15 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 6 | 0.15 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 13 | 0.15 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 17 | 0.15 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG22 | 7 | 0.15 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG21 | 8 | 0.15 |
| (2,3562) | 1:112:A:ASP:H | 1:115:A:ILE:HG23 | 17 | 0.15 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 12 | 0.15 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 12 | 0.15 |
| (2,3358) | 1:112:A:ASP:HB2 | 1:112:A:ASP:H | 12 | 0.15 |
| (2,3301) | 1:87:A:VAL:HG22 | 1:81:A:LEU:H | 16 | 0.15 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 16 | 0.15 |
| (2,3289) | 1:150:A:ILE:HD12 | 1:73:A:ASP:H | 20 | 0.15 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 1 | 0.15 |
| (2,3253) | 1:55:A:THR:HG23 | 1:64:A:GLU:H | 2 | 0.15 |
| (2,3253) | 1:55:A:THR:HG21 | 1:64:A:GLU:H | 3 | 0.15 |
| (2,3248) | 1:129:A:VAL:HG22 | 1:132:A:HIS:H | 5 | 0.15 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 5 | 0.15 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG22 | 10 | 0.15 |
| (2,3170) | 1:38:A:THR:HG21 | 1:38:A:THR:H | 1 | 0.15 |
| (2,3170) | 1:38:A:THR:HG23 | 1:38:A:THR:H | 16 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 3 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 4 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 6 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 7 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 8 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 18 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 19 | 0.15 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 20 | 0.15 |
| (2,3058) | 1:17:A:ASN:H | 1:17:A:ASN:HB3 | 11 | 0.15 |
| (2,3058) | 1:17:A:ASN:H | 1:17:A:ASN:HB3 | 19 | 0.15 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 15 | 0.15 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 7 | 0.15 |
| (2,2996) | 1:6:A:ALA:HB1 | 1:6:A:ALA:H | 10 | 0.15 |
| (2,2983) | 1:4:A:THR:H | 1:3:A:GLU:HB2 | 18 | 0.15 |
| (2,2982) | 1:4:A:THR:HG22 | 1:4:A:THR:H | 20 | 0.15 |
| (2,2805) | 1:126:A:ILE:HD13 | 1:130:A:ALA:H | 15 | 0.15 |
| (2,2801) | 1:28:A:PHE:H | 1:27:A:ASN:HD22 | 17 | 0.15 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 12 | 0.15 |
| (2,2776) | 1:42:A:GLY:H | 1:45:A:ARG:HD3 | 16 | 0.15 |
| (2,2754) | 1:18:A:LEU:H | 1:17:A:ASN:HD22 | 5 | 0.15 |
| (2,2751) | 1:18:A:LEU:H | 1:18:A:LEU:HD13 | 13 | 0.15 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 12 | 0.15 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 17 | 0.15 |
| (2,2671) | 1:103:A:PHE:H | 1:104:A:ARG:HB3 | 3 | 0.15 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD1 | 3 | 0.15 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 3 | 0.15 |
| (2,2611) | 1:150:A:ILE:HD13 | 1:144:A:PHE:H | 20 | 0.15 |
| (2,2570) | 1:96:A:ALA:H | 1:95:A:LYS:HG3 | 9 | 0.15 |
| (2,2519) | 1:92:A:LEU:H | 1:71:A:TYR:HE1 | 3 | 0.15 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 3 | 0.15 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 13 | 0.15 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 14 | 0.15 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 11 | 0.15 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 12 | 0.15 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 15 | 0.15 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 20 | 0.15 |
| (2,2338) | 1:29:A:LEU:HD22 | 1:130:A:ALA:H | 12 | 0.15 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 13 | 0.15 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG22 | 6 | 0.15 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG22 | 13 | 0.15 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 13 | 0.15 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 13 | 0.15 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 17 | 0.15 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 18 | 0.15 |
| (2,2151) | 1:122:A:LEU:HD21 | 1:33:A:VAL:HG11 | 17 | 0.15 |
| (2,2149) | 1:33:A:VAL:HG12 | 1:32:A:ASP:H | 19 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 8 | 0.15 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 14 | 0.15 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 15 | 0.15 |
| (2,2073) | 1:4:A:THR:HB | 1:3:A:GLU:H | 3 | 0.15 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 2 | 0.15 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 18 | 0.15 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 5 | 0.15 |
| (2,1972) | 1:157:A:SER:HB3 | 1:158:A:LYS:HG2 | 19 | 0.15 |
| (2,1946) | 1:145:A:LEU:HA | 1:145:A:LEU:HD13 | 20 | 0.15 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 15 | 0.15 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 4 | 0.15 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 5 | 0.15 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 16 | 0.15 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 2 | 0.15 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD12 | 12 | 0.15 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 16 | 0.15 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 14 | 0.15 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 4 | 0.15 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 14 | 0.15 |
| (2,1756) | 1:92:A:LEU:HD11 | 1:75:A:GLU:HB2 | 5 | 0.15 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 7 | 0.15 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 11 | 0.15 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 19 | 0.15 |
| (2,1696) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 12 | 0.15 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 6 | 0.15 |
| (2,1679) | 1:126:A:ILE:HG22 | 1:31:A:ILE:HG21 | 20 | 0.15 |
| (2,1672) | 1:31:A:ILE:HG23 | 1:127:A:ASN:H | 10 | 0.15 |
| (2,1671) | 1:31:A:ILE:HG22 | 1:127:A:ASN:HD21 | 2 | 0.15 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 5 | 0.15 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 9 | 0.15 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 18 | 0.15 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 20 | 0.15 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 6 | 0.15 |
| (2,1612) | 1:66:A:THR:HG22 | 1:50:A:GLU:HB3 | 1 | 0.15 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 9 | 0.15 |
| (2,1604) | 1:102:A:PRO:HB3 | 1:102:A:PRO:HG2 | 15 | 0.15 |
| (2,1583) | 1:141:A:LEU:HD12 | 1:138:A:GLU:H | 1 | 0.15 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 14 | 0.15 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 19 | 0.15 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 13 | 0.15 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 1 | 0.15 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1330) | 1:115:A:ILE:HG21 | 1:37:A:GLN:H | 19 | 0.15 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 15 | 0.15 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 4 | 0.15 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 2 | 0.15 |
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 9 | 0.15 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 18 | 0.15 |
| (2,1290) | 1:51:A:ILE:HD12 | 1:49:A:TYR:HB3 | 14 | 0.15 |
| (2,1290) | 1:51:A:ILE:HD13 | 1:49:A:TYR:HB3 | 17 | 0.15 |
| (2,1257) | 1:150:A:ILE:HG22 | 1:152:A:LYS:HG2 | 13 | 0.15 |
| (2,1212) | 1:29:A:LEU:HD13 | 1:57:A:LEU:H | 20 | 0.15 |
| (2,1197) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HG3 | 10 | 0.15 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 11 | 0.15 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 15 | 0.15 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 2 | 0.15 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 5 | 0.15 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 7 | 0.15 |
| (2,1169) | 1:45:A:ARG:HD2 | 1:38:A:THR:HG22 | 6 | 0.15 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 7 | 0.15 |
| (2,1137) | 1:59:A:ILE:HD13 | 1:59:A:ILE:HB | 11 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 2 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 3 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 6 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 11 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 12 | 0.15 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 20 | 0.15 |
| (2,1103) | 1:57:A:LEU:HD22 | 1:27:A:ASN:HB3 | 5 | 0.15 |
| (2,1099) | 1:18:A:LEU:HD23 | 1:18:A:LEU:HA | 17 | 0.15 |
| (2,1093) | 1:139:A:ARG:HG2 | 1:154:A:TYR:HE2 | 13 | 0.15 |
| (2,1092) | 1:139:A:ARG:HG3 | 1:159:A:ILE:HD11 | 5 | 0.15 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 2 | 0.15 |
| (2,995) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 13 | 0.15 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 11 | 0.15 |
| (2,975) | 1:104:A:ARG:HA | 1:104:A:ARG:HB3 | 7 | 0.15 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 8 | 0.15 |
| (2,963) | 1:40:A:GLY:HA3 | 1:39:A:VAL:HB | 5 | 0.15 |
| (2,877) | 1:115:A:ILE:HG22 | 1:47:A:THR:HG23 | 11 | 0.15 |
| (2,855) | 1:115:A:ILE:HG22 | 1:112:A:ASP:HA | 20 | 0.15 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 2 | 0.15 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 3 | 0.15 |
| (2,673) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 19 | 0.15 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 6 | 0.15 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 7 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 12 | 0.15 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 17 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 1 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 13 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 14 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 15 | 0.15 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 16 | 0.15 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB3 | 11 | 0.15 |
| (2,596) | 1:129:A:VAL:HG12 | 1:128:A:LYS:H | 7 | 0.15 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 2 | 0.15 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 10 | 0.15 |
| (2,531) | 1:143:A:MET:HE3 | 1:154:A:TYR:HB2 | 7 | 0.15 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 2 | 0.15 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 5 | 0.15 |
| (2,521) | 1:122:A:LEU:HD12 | 1:49:A:TYR:HD2 | 15 | 0.15 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG12 | 2 | 0.15 |
| (2,362) | 1:89:A:VAL:HG22 | 1:87:A:VAL:H | 2 | 0.15 |
| (2,362) | 1:89:A:VAL:HG23 | 1:87:A:VAL:H | 19 | 0.15 |
| (2,357) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HZ | 1 | 0.15 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 6 | 0.15 |
| (2,311) | 1:92:A:LEU:HD12 | 1:92:A:LEU:H | 7 | 0.15 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 13 | 0.15 |
| (2,311) | 1:92:A:LEU:HD12 | 1:92:A:LEU:H | 14 | 0.15 |
| (2,305) | 1:92:A:LEU:HD13 | 1:75:A:GLU:H | 18 | 0.15 |
| (2,292) | 1:92:A:LEU:HD13 | 1:93:A:PRO:HD2 | 10 | 0.15 |
| (2,292) | 1:92:A:LEU:HD13 | 1:93:A:PRO:HD2 | 20 | 0.15 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 1 | 0.15 |
| (2,291) | 1:92:A:LEU:HD22 | 1:93:A:PRO:HD3 | 12 | 0.15 |
| (2,248) | 1:150:A:ILE:HG21 | 1:144:A:PHE:HD2 | 7 | 0.15 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG23 | 5 | 0.15 |
| (2,164) | 1:61:A:LYS:HA | 1:61:A:LYS:HB3 | 10 | 0.15 |
| (2,151) | 1:66:A:THR:HG21 | 1:50:A:GLU:H | 9 | 0.15 |
| (2,150) | 1:66:A:THR:HG23 | 1:53:A:VAL:H | 3 | 0.15 |
| (2,150) | 1:66:A:THR:HG21 | 1:53:A:VAL:H | 7 | 0.15 |
| (2,150) | 1:66:A:THR:HG22 | 1:53:A:VAL:H | 10 | 0.15 |
| (2,125) | 1:127:A:ASN:HA | 1:127:A:ASN:HD22 | 8 | 0.15 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 3 | 0.15 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 7 | 0.15 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 16 | 0.15 |
| (2,52) | 1:83:A:ARG:HA | 1:83:A:ARG:HD2 | 3 | 0.15 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 1 | 0.15 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 7 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 8 | 0.15 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 2 | 0.15 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 19 | 0.15 |
| (2,4981) | 1:89:A:VAL:H | 1:128:A:LYS:HB2 | 9 | 0.14 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD23 | 13 | 0.14 |
| (2,4942) | 1:140:A:CYS:H | 1:139:A:ARG:HG2 | 14 | 0.14 |
| (2,4901) | 1:124:A:GLN:HE21 | 1:124:A:GLN:HB3 | 18 | 0.14 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 17 | 0.14 |
| (2,4890) | 1:143:A:MET:H | 1:145:A:LEU:HD23 | 15 | 0.14 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 8 | 0.14 |
| (2,4826) | 1:54:A:LYS:H | 1:31:A:ILE:HG13 | 20 | 0.14 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD2 | 5 | 0.14 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 10 | 0.14 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 2 | 0.14 |
| (2,4760) | 1:5:A:VAL:HG22 | 1:4:A:THR:H | 12 | 0.14 |
| (2,4736) | 1:138:A:GLU:HG2 | 1:135:A:ALA:H | 12 | 0.14 |
| (2,4725) | 1:50:A:GLU:H | 1:36:A:PRO:HB3 | 11 | 0.14 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 6 | 0.14 |
| (2,4696) | 1:45:A:ARG:H | 1:110:A:PHE:HE1 | 18 | 0.14 |
| (2,4694) | 1:45:A:ARG:H | 1:43:A:ARG:HG2 | 16 | 0.14 |
| (2,4689) | 1:121:A:GLY:H | 1:93:A:PRO:HB2 | 16 | 0.14 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 6 | 0.14 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 8 | 0.14 |
| (2,4682) | 1:81:A:LEU:HD21 | 1:137:A:ASN:H | 18 | 0.14 |
| (2,4681) | 1:141:A:LEU:HD23 | 1:137:A:ASN:H | 6 | 0.14 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 1 | 0.14 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 10 | 0.14 |
| (2,4668) | 1:157:A:SER:H | 1:139:A:ARG:HG3 | 18 | 0.14 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 2 | 0.14 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 3 | 0.14 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG23 | 5 | 0.14 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 6 | 0.14 |
| (2,4594) | 1:19:A:ASN:H | 1:18:A:LEU:HB3 | 14 | 0.14 |
| (2,4574) | 1:88:A:VAL:HG21 | 1:90:A:PRO:HD2 | 2 | 0.14 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 5 | 0.14 |
| (2,4574) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HD2 | 7 | 0.14 |
| (2,4574) | 1:88:A:VAL:HG23 | 1:90:A:PRO:HD2 | 17 | 0.14 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 1 | 0.14 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 7 | 0.14 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 9 | 0.14 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 13 | 0.14 |
| (2,4573) | 1:68:A:ARG:HD2 | 1:68:A:ARG:HB3 | 18 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4563) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 18 | 0.14 |
| (2,4552) | 1:122:A:LEU:HB3 | 1:118:A:ARG:HA | 19 | 0.14 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 12 | 0.14 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 13 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:130:A:ALA:HA | 4 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:130:A:ALA:HA | 6 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 10 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 12 | 0.14 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 18 | 0.14 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 7 | 0.14 |
| (2,4543) | 1:85:A:SER:HB2 | 1:86:A:LYS:HG3 | 11 | 0.14 |
| (2,4473) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HB2 | 8 | 0.14 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 1 | 0.14 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 17 | 0.14 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD21 | 14 | 0.14 |
| (2,4398) | 1:62:A:LEU:HD11 | 1:61:A:LYS:HD2 | 8 | 0.14 |
| (2,4378) | 1:58:A:PRO:HA | 1:22:A:TYR:HD1 | 17 | 0.14 |
| (2,4359) | 1:157:A:SER:HB3 | 1:158:A:LYS:HD2 | 13 | 0.14 |
| (2,4335) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB3 | 4 | 0.14 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 17 | 0.14 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 8 | 0.14 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG23 | 2 | 0.14 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 6 | 0.14 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 19 | 0.14 |
| (2,4276) | 1:75:A:GLU:HG2 | 1:74:A:PHE:HA | 3 | 0.14 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 3 | 0.14 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 13 | 0.14 |
| (2,4273) | 1:16:A:GLN:HG3 | 1:15:A:PRO:HA | 15 | 0.14 |
| (2,4265) | 1:68:A:ARG:HD2 | 1:68:A:ARG:H | 1 | 0.14 |
| (2,4265) | 1:68:A:ARG:HD2 | 1:68:A:ARG:H | 19 | 0.14 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 4 | 0.14 |
| (2,4249) | 1:12:A:ILE:HD12 | 1:11:A:LEU:H | 8 | 0.14 |
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 16 | 0.14 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 17 | 0.14 |
| (2,4234) | 1:35:A:ASN:HB3 | 1:36:A:PRO:HD2 | 19 | 0.14 |
| (2,4225) | 1:25:A:PRO:HG2 | 1:26:A:SER:HB2 | 13 | 0.14 |
| (2,4217) | 1:25:A:PRO:HA | 1:58:A:PRO:HD2 | 17 | 0.14 |
| (2,4215) | 1:156:A:PRO:HD3 | 1:139:A:ARG:HG2 | 20 | 0.14 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 3 | 0.14 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 3 | 0.14 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 15 | 0.14 |
| (2,4204) | 1:158:A:LYS:HD2 | 1:137:A:ASN:HD22 | 6 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4202) | 1:159:A:ILE:HG23 | 1:160:A:ARG:HD3 | 8 | 0.14 |
| (2,4179) | 1:141:A:LEU:HD13 | 1:60:A:PHE:HZ | 3 | 0.14 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 19 | 0.14 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 14 | 0.14 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD11 | 19 | 0.14 |
| (2,4159) | 1:53:A:VAL:HG12 | 1:66:A:THR:HA | 18 | 0.14 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 11 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 7 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD13 | 1:31:A:ILE:HG13 | 17 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 18 | 0.14 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 19 | 0.14 |
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 8 | 0.14 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 2 | 0.14 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 19 | 0.14 |
| (2,4058) | 1:29:A:LEU:HD13 | 1:31:A:ILE:HA | 5 | 0.14 |
| (2,4058) | 1:29:A:LEU:HD12 | 1:31:A:ILE:HA | 10 | 0.14 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 3 | 0.14 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 19 | 0.14 |
| (2,4050) | 1:29:A:LEU:HD12 | 1:57:A:LEU:HG | 11 | 0.14 |
| (2,4006) | 1:139:A:ARG:HD2 | 1:139:A:ARG:HB2 | 9 | 0.14 |
| (2,3992) | 1:100:A:GLN:HG2 | 1:101:A:LEU:HG | 13 | 0.14 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 4 | 0.14 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 7 | 0.14 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG2 | 18 | 0.14 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG3 | 19 | 0.14 |
| (2,3975) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB2 | 14 | 0.14 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 16 | 0.14 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 12 | 0.14 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 16 | 0.14 |
| (2,3959) | 1:109:A:ILE:HD12 | 1:110:A:PHE:HE1 | 8 | 0.14 |
| (2,3959) | 1:109:A:ILE:HD13 | 1:110:A:PHE:HE1 | 17 | 0.14 |
| (2,3947) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 11 | 0.14 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 3 | 0.14 |
| (2,3907) | 1:119:A:LYS:HE2 | 1:116:A:GLU:H | 9 | 0.14 |
| (2,3903) | 1:120:A:GLN:HG2 | 1:117:A:GLU:HB3 | 20 | 0.14 |
| (2,3894) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HG2 | 9 | 0.14 |
| (2,3887) | 1:122:A:LEU:HD22 | 1:125:A:PHE:HD2 | 5 | 0.14 |
| (2,3879) | 1:123:A:GLU:HG3 | 1:33:A:VAL:HG23 | 19 | 0.14 |
| (2,3877) | 1:123:A:GLU:HB3 | 1:127:A:ASN:HD22 | 20 | 0.14 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 19 | 0.14 |
| (2,3849) | 1:55:A:THR:HG22 | 1:29:A:LEU:HD13 | 3 | 0.14 |
| (2,3822) | 1:158:A:LYS:HG3 | 1:158:A:LYS:HE2 | 17 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 3 | 0.14 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 4 | 0.14 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 19 | 0.14 |
| (2,3770) | 1:126:A:ILE:HG21 | 1:123:A:GLU:H | 19 | 0.14 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 14 | 0.14 |
| (2,3726) | 1:89:A:VAL:HG23 | 1:78:A:ARG:HA | 16 | 0.14 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 12 | 0.14 |
| (2,3708) | 1:92:A:LEU:HD11 | 1:78:A:ARG:H | 8 | 0.14 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 7 | 0.14 |
| (2,3694) | 1:150:A:ILE:HD12 | 1:69:A:ARG:HG3 | 18 | 0.14 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 19 | 0.14 |
| (2,3616) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HG3 | 6 | 0.14 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 5 | 0.14 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 12 | 0.14 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 3 | 0.14 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 20 | 0.14 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 6 | 0.14 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 12 | 0.14 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD11 | 9 | 0.14 |
| (2,3466) | 1:136:A:GLN:HE22 | 1:136:A:GLN:H | 13 | 0.14 |
| (2,3336) | 1:106:A:ASP:H | 1:107:A:ASP:HB3 | 16 | 0.14 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 13 | 0.14 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 2 | 0.14 |
| (2,3253) | 1:55:A:THR:HG21 | 1:64:A:GLU:H | 4 | 0.14 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 2 | 0.14 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 4 | 0.14 |
| (2,3237) | 1:55:A:THR:H | 1:64:A:GLU:HB2 | 20 | 0.14 |
| (2,3199) | 1:39:A:VAL:HG13 | 1:46:A:PHE:H | 1 | 0.14 |
| (2,3119) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HD22 | 6 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 1 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 2 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 5 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 9 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 10 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 11 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 12 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 13 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 14 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 15 | 0.14 |
| (2,3098) | 1:56:A:ASN:HD22 | 1:56:A:ASN:HD21 | 16 | 0.14 |
| (2,3000) | 1:38:A:THR:HG21 | 1:39:A:VAL:H | 1 | 0.14 |
| (2,2997) | 1:6:A:ALA:H | 1:5:A:VAL:HB | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 4 | 0.14 |
| (2,2982) | 1:4:A:THR:HG23 | 1:4:A:THR:H | 2 | 0.14 |
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 2 | 0.14 |
| (2,2805) | 1:126:A:ILE:HD11 | 1:130:A:ALA:H | 20 | 0.14 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 17 | 0.14 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 4 | 0.14 |
| (2,2750) | 1:18:A:LEU:H | 1:17:A:ASN:HB2 | 8 | 0.14 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 12 | 0.14 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 16 | 0.14 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 18 | 0.14 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD22 | 10 | 0.14 |
| (2,2521) | 1:83:A:ARG:H | 1:85:A:SER:HB2 | 9 | 0.14 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 20 | 0.14 |
| (2,2373) | 1:33:A:VAL:HG21 | 1:49:A:TYR:HE1 | 7 | 0.14 |
| (2,2370) | 1:145:A:LEU:HD22 | 1:136:A:GLN:HE22 | 2 | 0.14 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 2 | 0.14 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 5 | 0.14 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 7 | 0.14 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 9 | 0.14 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 10 | 0.14 |
| (2,2321) | 1:81:A:LEU:HD22 | 1:87:A:VAL:HB | 20 | 0.14 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 19 | 0.14 |
| (2,2307) | 1:41:A:VAL:HG21 | 1:44:A:GLY:H | 3 | 0.14 |
| (2,2284) | 1:156:A:PRO:HA | 1:76:A:TRP:HH2 | 7 | 0.14 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 17 | 0.14 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 19 | 0.14 |
| (2,2232) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HD1 | 3 | 0.14 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 8 | 0.14 |
| (2,2205) | 1:65:A:SER:HB2 | 1:62:A:LEU:HG | 6 | 0.14 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 3 | 0.14 |
| (2,2161) | 1:39:A:VAL:HA | 1:38:A:THR:HG22 | 7 | 0.14 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG23 | 5 | 0.14 |
| (2,2149) | 1:33:A:VAL:HG11 | 1:32:A:ASP:H | 8 | 0.14 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 2 | 0.14 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 7 | 0.14 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 20 | 0.14 |
| (2,2121) | 1:58:A:PRO:HB2 | 1:59:A:ILE:HA | 1 | 0.14 |
| (2,2045) | 1:51:A:ILE:HG12 | 1:33:A:VAL:HA | 4 | 0.14 |
| (2,2017) | 1:134:A:LEU:HD13 | 1:137:A:ASN:HB2 | 16 | 0.14 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 3 | 0.14 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 4 | 0.14 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 2 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1919) | 1:33:A:VAL:HG22 | 1:49:A:TYR:HB2 | 14 | 0.14 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG22 | 12 | 0.14 |
| (2,1901) | 1:116:A:GLU:HG3 | 1:118:A:ARG:H | 13 | 0.14 |
| (2,1898) | 1:115:A:ILE:HG21 | 1:116:A:GLU:HB2 | 5 | 0.14 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 16 | 0.14 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 19 | 0.14 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 8 | 0.14 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD11 | 18 | 0.14 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 13 | 0.14 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 20 | 0.14 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 15 | 0.14 |
| (2,1716) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HB3 | 18 | 0.14 |
| (2,1700) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HD2 | 10 | 0.14 |
| (2,1700) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HD2 | 11 | 0.14 |
| (2,1696) | 1:115:A:ILE:HG21 | 1:36:A:PRO:HG2 | 9 | 0.14 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 8 | 0.14 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG23 | 13 | 0.14 |
| (2,1679) | 1:126:A:ILE:HG23 | 1:31:A:ILE:HG21 | 16 | 0.14 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 3 | 0.14 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 10 | 0.14 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 15 | 0.14 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 17 | 0.14 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 19 | 0.14 |
| (2,1634) | 1:156:A:PRO:HA | 1:154:A:TYR:HE2 | 4 | 0.14 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 8 | 0.14 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 3 | 0.14 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 13 | 0.14 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 16 | 0.14 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 3 | 0.14 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 16 | 0.14 |
| (2,1511) | 1:59:A:ILE:HG22 | 1:57:A:LEU:HG | 8 | 0.14 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 20 | 0.14 |
| (2,1464) | 1:133:A:PRO:HD3 | 1:132:A:HIS:H | 15 | 0.14 |
| (2,1432) | 1:149:A:ILE:HB | 1:148:A:GLU:H | 17 | 0.14 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 8 | 0.14 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 11 | 0.14 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 15 | 0.14 |
| (2,1370) | 1:21:A:ALA:HB3 | 1:20:A:ASP:H | 5 | 0.14 |
| (2,1347) | 1:51:A:ILE:HG23 | 1:53:A:VAL:HG11 | 3 | 0.14 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 10 | 0.14 |
| (2,1326) | 1:12:A:ILE:HG22 | 1:13:A:THR:HA | 16 | 0.14 |
| (2,1324) | 1:12:A:ILE:HG21 | 1:12:A:ILE:HB | 19 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 1 | 0.14 |
| (2,1319) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 6 | 0.14 |
| (2,1319) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 13 | 0.14 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 16 | 0.14 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 17 | 0.14 |
| (2,1309) | 1:149:A:ILE:HG21 | 1:150:A:ILE:H | 9 | 0.14 |
| (2,1299) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HB | 15 | 0.14 |
| (2,1249) | 1:101:A:LEU:HB3 | 1:101:A:LEU:H | 20 | 0.14 |
| (2,1203) | 1:29:A:LEU:HD23 | 1:31:A:ILE:HD12 | 4 | 0.14 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 9 | 0.14 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 10 | 0.14 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 11 | 0.14 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 13 | 0.14 |
| (2,1148) | 1:122:A:LEU:HB2 | 1:123:A:GLU:HA | 10 | 0.14 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 3 | 0.14 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 4 | 0.14 |
| (2,1137) | 1:59:A:ILE:HD11 | 1:59:A:ILE:HB | 13 | 0.14 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 2 | 0.14 |
| (2,1127) | 1:152:A:LYS:HE3 | 1:152:A:LYS:HA | 18 | 0.14 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 3 | 0.14 |
| (2,1126) | 1:152:A:LYS:HE2 | 1:152:A:LYS:HA | 9 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 7 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 9 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD13 | 1:12:A:ILE:HG13 | 10 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 15 | 0.14 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 17 | 0.14 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 12 | 0.14 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 14 | 0.14 |
| (2,1063) | 1:159:A:ILE:HD13 | 1:142:A:HIS:HB3 | 8 | 0.14 |
| (2,1056) | 1:159:A:ILE:HD12 | 1:139:A:ARG:H | 12 | 0.14 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 17 | 0.14 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 5 | 0.14 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 10 | 0.14 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 11 | 0.14 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 4 | 0.14 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 11 | 0.14 |
| (2,877) | 1:115:A:ILE:HG21 | 1:47:A:THR:HG21 | 16 | 0.14 |
| (2,855) | 1:115:A:ILE:HG23 | 1:112:A:ASP:HA | 14 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 1 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 4 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 6 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 14 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 15 | 0.14 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 17 | 0.14 |
| (2,798) | 1:118:A:ARG:HA | 1:122:A:LEU:HD22 | 17 | 0.14 |
| (2,754) | 1:119:A:LYS:HA | 1:122:A:LEU:HD21 | 10 | 0.14 |
| (2,712) | 1:124:A:GLN:HG3 | 1:123:A:GLU:H | 19 | 0.14 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 8 | 0.14 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 9 | 0.14 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 17 | 0.14 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 5 | 0.14 |
| (2,623) | 1:129:A:VAL:HG21 | 1:130:A:ALA:HB3 | 8 | 0.14 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG23 | 15 | 0.14 |
| (2,598) | 1:129:A:VAL:HG11 | 1:125:A:PHE:HD1 | 2 | 0.14 |
| (2,568) | 1:143:A:MET:HG2 | 1:150:A:ILE:HA | 18 | 0.14 |
| (2,549) | 1:143:A:MET:HE2 | 1:150:A:ILE:HG12 | 5 | 0.14 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 11 | 0.14 |
| (2,531) | 1:143:A:MET:HE2 | 1:154:A:TYR:HB2 | 8 | 0.14 |
| (2,530) | 1:143:A:MET:HE1 | 1:150:A:ILE:HA | 7 | 0.14 |
| (2,530) | 1:143:A:MET:HE3 | 1:150:A:ILE:HA | 12 | 0.14 |
| (2,525) | 1:122:A:LEU:HD11 | 1:122:A:LEU:H | 1 | 0.14 |
| (2,516) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HA | 6 | 0.14 |
| (2,516) | 1:122:A:LEU:HD12 | 1:92:A:LEU:HA | 9 | 0.14 |
| (2,516) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HA | 12 | 0.14 |
| (2,455) | 1:48:A:THR:HG21 | 1:49:A:TYR:H | 6 | 0.14 |
| (2,455) | 1:48:A:THR:HG22 | 1:49:A:TYR:H | 11 | 0.14 |
| (2,452) | 1:141:A:LEU:HD13 | 1:130:A:ALA:HA | 6 | 0.14 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG12 | 19 | 0.14 |
| (2,372) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HB2 | 7 | 0.14 |
| (2,362) | 1:89:A:VAL:HG23 | 1:87:A:VAL:H | 17 | 0.14 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG12 | 12 | 0.14 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 16 | 0.14 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 20 | 0.14 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 9 | 0.14 |
| (2,310) | 1:92:A:LEU:HD22 | 1:92:A:LEU:H | 9 | 0.14 |
| (2,306) | 1:92:A:LEU:HD23 | 1:75:A:GLU:H | 19 | 0.14 |
| (2,272) | 1:22:A:TYR:HB2 | 1:28:A:PHE:HD2 | 1 | 0.14 |
| (2,251) | 1:150:A:ILE:HG21 | 1:154:A:TYR:HE1 | 14 | 0.14 |
| (2,213) | 1:158:A:LYS:HB3 | 1:137:A:ASN:HD21 | 16 | 0.14 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG23 | 16 | 0.14 |
| (2,156) | 1:66:A:THR:HG22 | 1:50:A:GLU:HG3 | 15 | 0.14 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 6 | 0.14 |
| (2,125) | 1:127:A:ASN:HA | 1:127:A:ASN:HD22 | 16 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 2 | 0.14 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 6 | 0.14 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 8 | 0.14 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 13 | 0.14 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG21 | 20 | 0.14 |
| (2,60) | 1:81:A:LEU:HA | 1:85:A:SER:HB2 | 9 | 0.14 |
| (2,33) | 1:27:A:ASN:HA | 1:56:A:ASN:HD21 | 3 | 0.14 |
| (2,25) | 1:43:A:ARG:HA | 1:43:A:ARG:HG3 | 11 | 0.14 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 18 | 0.14 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 10 | 0.13 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 6 | 0.13 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 2 | 0.13 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 12 | 0.13 |
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 12 | 0.13 |
| (2,4850) | 1:84:A:GLU:HB3 | 1:84:A:GLU:H | 5 | 0.13 |
| (2,4847) | 1:76:A:TRP:H | 1:144:A:PHE:HZ | 7 | 0.13 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD13 | 11 | 0.13 |
| (2,4816) | 1:81:A:LEU:HD13 | 1:81:A:LEU:H | 2 | 0.13 |
| (2,4807) | 1:57:A:LEU:H | 1:22:A:TYR:HD1 | 17 | 0.13 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 7 | 0.13 |
| (2,4765) | 1:8:A:THR:H | 1:9:A:ARG:HB2 | 7 | 0.13 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 12 | 0.13 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 2 | 0.13 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 10 | 0.13 |
| (2,4718) | 1:105:A:GLY:H | 1:106:A:ASP:H | 12 | 0.13 |
| (2,4715) | 1:105:A:GLY:H | 1:104:A:ARG:HG2 | 18 | 0.13 |
| (2,4709) | 1:60:A:PHE:H | 1:58:A:PRO:HB2 | 4 | 0.13 |
| (2,4682) | 1:81:A:LEU:HD23 | 1:137:A:ASN:H | 9 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD22 | 1:137:A:ASN:H | 7 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD21 | 1:137:A:ASN:H | 12 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD22 | 1:137:A:ASN:H | 13 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD21 | 1:137:A:ASN:H | 16 | 0.13 |
| (2,4681) | 1:141:A:LEU:HD22 | 1:137:A:ASN:H | 18 | 0.13 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 12 | 0.13 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 12 | 0.13 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB3 | 17 | 0.13 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 18 | 0.13 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 6 | 0.13 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 9 | 0.13 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 14 | 0.13 |
| (2,4631) | 1:104:A:ARG:H | 1:103:A:PHE:HB2 | 4 | 0.13 |
| (2,4619) | 1:85:A:SER:H | 1:83:A:ARG:HG2 | 1 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4615) | 1:84:A:GLU:H | 1:82:A:GLU:H | 1 | 0.13 |
| (2,4615) | 1:84:A:GLU:H | 1:82:A:GLU:H | 9 | 0.13 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 12 | 0.13 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 6 | 0.13 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 4 | 0.13 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 16 | 0.13 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 7 | 0.13 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 4 | 0.13 |
| (2,4518) | 1:115:A:ILE:HD11 | 1:113:A:ASN:H | 13 | 0.13 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 1 | 0.13 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 4 | 0.13 |
| (2,4441) | 1:33:A:VAL:HG11 | 1:122:A:LEU:H | 5 | 0.13 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 6 | 0.13 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 13 | 0.13 |
| (2,4406) | 1:3:A:GLU:HA | 1:3:A:GLU:HG2 | 3 | 0.13 |
| (2,4391) | 1:78:A:ARG:HG3 | 1:81:A:LEU:HD13 | 4 | 0.13 |
| (2,4375) | 1:43:A:ARG:HB3 | 1:43:A:ARG:HD3 | 20 | 0.13 |
| (2,4374) | 1:43:A:ARG:HB2 | 1:43:A:ARG:HD2 | 11 | 0.13 |
| (2,4351) | 1:81:A:LEU:HD12 | 1:89:A:VAL:HG23 | 2 | 0.13 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 3 | 0.13 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 4 | 0.13 |
| (2,4296) | 1:87:A:VAL:HA | 1:88:A:VAL:HG21 | 4 | 0.13 |
| (2,4291) | 1:64:A:GLU:HG3 | 1:54:A:LYS:HE3 | 1 | 0.13 |
| (2,4281) | 1:85:A:SER:HB2 | 1:86:A:LYS:HA | 12 | 0.13 |
| (2,4269) | 1:68:A:ARG:HG2 | 1:68:A:ARG:HD3 | 7 | 0.13 |
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 8 | 0.13 |
| (2,4247) | 1:12:A:ILE:HB | 1:13:A:THR:HA | 18 | 0.13 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 9 | 0.13 |
| (2,4240) | 1:31:A:ILE:HG21 | 1:52:A:ARG:HB2 | 11 | 0.13 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 3 | 0.13 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 17 | 0.13 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 1 | 0.13 |
| (2,4208) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HG3 | 5 | 0.13 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 16 | 0.13 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 14 | 0.13 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 16 | 0.13 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 18 | 0.13 |
| (2,4202) | 1:159:A:ILE:HG22 | 1:160:A:ARG:HD3 | 6 | 0.13 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD3 | 1 | 0.13 |
| (2,4199) | 1:160:A:ARG:HA | 1:160:A:ARG:HD2 | 13 | 0.13 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 9 | 0.13 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 11 | 0.13 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG3 | 18 | 0.13 |
| (2,4137) | 1:137:A:ASN:HB3 | 1:158:A:LYS:HB2 | 5 | 0.13 |
| (2,4127) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 20 | 0.13 |
| (2,4112) | 1:81:A:LEU:HD13 | 1:135:A:ALA:HB2 | 12 | 0.13 |
| (2,4095) | 1:59:A:ILE:HG23 | 1:137:A:ASN:H | 16 | 0.13 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 1 | 0.13 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 6 | 0.13 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 8 | 0.13 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 11 | 0.13 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 16 | 0.13 |
| (2,4082) | 1:126:A:ILE:HD11 | 1:129:A:VAL:H | 1 | 0.13 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 12 | 0.13 |
| (2,4058) | 1:29:A:LEU:HD11 | 1:31:A:ILE:HA | 8 | 0.13 |
| (2,4058) | 1:29:A:LEU:HD12 | 1:31:A:ILE:HA | 19 | 0.13 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 1 | 0.13 |
| (2,4052) | 1:29:A:LEU:HD22 | 1:57:A:LEU:HG | 6 | 0.13 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 12 | 0.13 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 9 | 0.13 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 18 | 0.13 |
| (2,3985) | 1:104:A:ARG:HG3 | 1:104:A:ARG:H | 12 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 2 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 3 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 5 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 8 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 10 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 11 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 13 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 14 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 15 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 16 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 17 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 18 | 0.13 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 19 | 0.13 |
| (2,3978) | 1:99:A:ARG:HB3 | 1:99:A:ARG:HB2 | 20 | 0.13 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 7 | 0.13 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 12 | 0.13 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 7 | 0.13 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 16 | 0.13 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 13 | 0.13 |
| (2,3940) | 1:115:A:ILE:HD11 | 1:109:A:ILE:HA | 8 | 0.13 |
| (2,3911) | 1:119:A:LYS:HE3 | 1:119:A:LYS:HA | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3907) | 1:119:A:LYS:HE3 | 1:116:A:GLU:H | 14 | 0.13 |
| (2,3901) | 1:120:A:GLN:HB2 | 1:121:A:GLY:H | 5 | 0.13 |
| (2,3883) | 1:61:A:LYS:HG3 | 1:61:A:LYS:HD2 | 10 | 0.13 |
| (2,3882) | 1:119:A:LYS:HA | 1:33:A:VAL:HB | 14 | 0.13 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 4 | 0.13 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 10 | 0.13 |
| (2,3849) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 9 | 0.13 |
| (2,3847) | 1:159:A:ILE:HG21 | 1:136:A:GLN:HB2 | 8 | 0.13 |
| (2,3847) | 1:159:A:ILE:HG22 | 1:136:A:GLN:HB2 | 13 | 0.13 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 5 | 0.13 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 10 | 0.13 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 13 | 0.13 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB2 | 19 | 0.13 |
| (2,3770) | 1:126:A:ILE:HG22 | 1:123:A:GLU:H | 8 | 0.13 |
| (2,3770) | 1:126:A:ILE:HG23 | 1:123:A:GLU:H | 17 | 0.13 |
| (2,3763) | 1:53:A:VAL:HG22 | 1:64:A:GLU:HB3 | 19 | 0.13 |
| (2,3757) | 1:47:A:THR:HG21 | 1:115:A:ILE:HA | 15 | 0.13 |
| (2,3740) | 1:87:A:VAL:HG22 | 1:86:A:LYS:H | 15 | 0.13 |
| (2,3739) | 1:87:A:VAL:HB | 1:82:A:GLU:H | 16 | 0.13 |
| (2,3688) | 1:150:A:ILE:HD11 | 1:77:A:LEU:H | 20 | 0.13 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 12 | 0.13 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG3 | 3 | 0.13 |
| (2,3656) | 1:66:A:THR:HB | 1:50:A:GLU:HG3 | 11 | 0.13 |
| (2,3605) | 1:61:A:LYS:H | 1:22:A:TYR:HE1 | 18 | 0.13 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 19 | 0.13 |
| (2,3539) | 1:100:A:GLN:HE21 | 1:100:A:GLN:HA | 3 | 0.13 |
| (2,3537) | 1:100:A:GLN:HE21 | 1:100:A:GLN:HB2 | 6 | 0.13 |
| (2,3517) | 1:157:A:SER:H | 1:154:A:TYR:HD2 | 13 | 0.13 |
| (2,3503) | 1:142:A:HIS:H | 1:143:A:MET:HE3 | 17 | 0.13 |
| (2,3471) | 1:137:A:ASN:HD21 | 1:134:A:LEU:HD12 | 5 | 0.13 |
| (2,3419) | 1:124:A:GLN:HE21 | 1:123:A:GLU:HG3 | 19 | 0.13 |
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 6 | 0.13 |
| (2,3287) | 1:73:A:ASP:H | 1:71:A:TYR:HD1 | 8 | 0.13 |
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 7 | 0.13 |
| (2,3284) | 1:68:A:ARG:H | 1:50:A:GLU:HG2 | 14 | 0.13 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD11 | 10 | 0.13 |
| (2,3090) | 1:23:A:GLY:H | 1:21:A:ALA:HB2 | 14 | 0.13 |
| (2,3089) | 1:23:A:GLY:H | 1:27:A:ASN:HB2 | 15 | 0.13 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 5 | 0.13 |
| (2,3000) | 1:38:A:THR:HG21 | 1:39:A:VAL:H | 14 | 0.13 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG21 | 14 | 0.13 |
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 8 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 20 | 0.13 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 1 | 0.13 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 13 | 0.13 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 20 | 0.13 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 20 | 0.13 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG21 | 8 | 0.13 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG21 | 20 | 0.13 |
| (2,2628) | 1:148:A:GLU:H | 1:149:A:ILE:H | 14 | 0.13 |
| (2,2589) | 1:158:A:LYS:HB2 | 1:159:A:ILE:H | 10 | 0.13 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 8 | 0.13 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 17 | 0.13 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 9 | 0.13 |
| (2,2444) | 1:67:A:VAL:HG12 | 1:68:A:ARG:H | 11 | 0.13 |
| (2,2428) | 1:20:A:ASP:H | 1:19:A:ASN:HB3 | 6 | 0.13 |
| (2,2428) | 1:20:A:ASP:H | 1:19:A:ASN:HB3 | 18 | 0.13 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 17 | 0.13 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 16 | 0.13 |
| (2,2307) | 1:41:A:VAL:HG22 | 1:44:A:GLY:H | 7 | 0.13 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG23 | 2 | 0.13 |
| (2,2288) | 1:162:A:ALA:HB3 | 1:161:A:HIS:HB2 | 2 | 0.13 |
| (2,2267) | 1:135:A:ALA:HB2 | 1:136:A:GLN:HG3 | 1 | 0.13 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD13 | 15 | 0.13 |
| (2,2222) | 1:78:A:ARG:HG2 | 1:92:A:LEU:HD11 | 16 | 0.13 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG21 | 2 | 0.13 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG23 | 8 | 0.13 |
| (2,2149) | 1:33:A:VAL:HG13 | 1:32:A:ASP:H | 9 | 0.13 |
| (2,2131) | 1:29:A:LEU:HD22 | 1:136:A:GLN:HE21 | 11 | 0.13 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 4 | 0.13 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 18 | 0.13 |
| (2,2064) | 1:33:A:VAL:HB | 1:123:A:GLU:H | 13 | 0.13 |
| (2,2064) | 1:33:A:VAL:HB | 1:123:A:GLU:H | 19 | 0.13 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 2 | 0.13 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 12 | 0.13 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 13 | 0.13 |
| (2,1965) | 1:149:A:ILE:HD11 | 1:150:A:ILE:HA | 5 | 0.13 |
| (2,1929) | 1:141:A:LEU:HD22 | 1:138:A:GLU:H | 13 | 0.13 |
| (2,1929) | 1:141:A:LEU:HD21 | 1:138:A:GLU:H | 16 | 0.13 |
| (2,1922) | 1:33:A:VAL:HG23 | 1:33:A:VAL:HA | 15 | 0.13 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG23 | 3 | 0.13 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG21 | 17 | 0.13 |
| (2,1901) | 1:116:A:GLU:HG3 | 1:118:A:ARG:H | 7 | 0.13 |
| (2,1866) | 1:98:A:LEU:HD23 | 1:94:A:GLY:HA3 | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG22 | 3 | 0.13 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 2 | 0.13 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 20 | 0.13 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 11 | 0.13 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 18 | 0.13 |
| (2,1784) | 1:83:A:ARG:HG3 | 1:84:A:GLU:H | 15 | 0.13 |
| (2,1784) | 1:83:A:ARG:HG3 | 1:84:A:GLU:H | 18 | 0.13 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 3 | 0.13 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 5 | 0.13 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 20 | 0.13 |
| (2,1750) | 1:80:A:GLU:HA | 1:84:A:GLU:H | 9 | 0.13 |
| (2,1743) | 1:22:A:TYR:HB3 | 1:56:A:ASN:HD21 | 12 | 0.13 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB2 | 7 | 0.13 |
| (2,1709) | 1:20:A:ASP:HA | 1:21:A:ALA:HB3 | 14 | 0.13 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 15 | 0.13 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 7 | 0.13 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 11 | 0.13 |
| (2,1692) | 1:34:A:SER:HB3 | 1:119:A:LYS:HD3 | 18 | 0.13 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG21 | 15 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 2 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 6 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 8 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 12 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 13 | 0.13 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 14 | 0.13 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 20 | 0.13 |
| (2,1590) | 1:129:A:VAL:HG22 | 1:141:A:LEU:HD11 | 20 | 0.13 |
| (2,1538) | 1:41:A:VAL:HA | 1:45:A:ARG:HB2 | 12 | 0.13 |
| (2,1516) | 1:57:A:LEU:HD13 | 1:57:A:LEU:HD23 | 3 | 0.13 |
| (2,1511) | 1:59:A:ILE:HG22 | 1:57:A:LEU:HG | 9 | 0.13 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 7 | 0.13 |
| (2,1499) | 1:57:A:LEU:HD22 | 1:58:A:PRO:HD3 | 9 | 0.13 |
| (2,1499) | 1:57:A:LEU:HD21 | 1:58:A:PRO:HD3 | 15 | 0.13 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 1 | 0.13 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 4 | 0.13 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 5 | 0.13 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 8 | 0.13 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG21 | 1 | 0.13 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG23 | 4 | 0.13 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG23 | 7 | 0.13 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 10 | 0.13 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 11 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 16 | 0.13 |
| (2,1406) | 1:39:A:VAL:HG21 | 1:39:A:VAL:HA | 4 | 0.13 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 5 | 0.13 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 7 | 0.13 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 9 | 0.13 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 13 | 0.13 |
| (2,1387) | 1:41:A:VAL:HG23 | 1:41:A:VAL:HA | 7 | 0.13 |
| (2,1387) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HA | 13 | 0.13 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG21 | 11 | 0.13 |
| (2,1326) | 1:12:A:ILE:HG21 | 1:13:A:THR:HA | 9 | 0.13 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 14 | 0.13 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG22 | 16 | 0.13 |
| (2,1319) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 8 | 0.13 |
| (2,1319) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 14 | 0.13 |
| (2,1286) | 1:51:A:ILE:HD11 | 1:144:A:PHE:HE1 | 17 | 0.13 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 13 | 0.13 |
| (2,1263) | 1:152:A:LYS:HB3 | 1:76:A:TRP:HE1 | 15 | 0.13 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 6 | 0.13 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 3 | 0.13 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 18 | 0.13 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 7 | 0.13 |
| (2,1128) | 1:152:A:LYS:HE2 | 1:152:A:LYS:H | 9 | 0.13 |
| (2,1113) | 1:149:A:ILE:HD13 | 1:149:A:ILE:HB | 1 | 0.13 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 4 | 0.13 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 5 | 0.13 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 8 | 0.13 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 14 | 0.13 |
| (2,1107) | 1:12:A:ILE:HD12 | 1:12:A:ILE:HG13 | 16 | 0.13 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 8 | 0.13 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 7 | 0.13 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 7 | 0.13 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 1 | 0.13 |
| (2,1056) | 1:159:A:ILE:HD11 | 1:139:A:ARG:H | 9 | 0.13 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 16 | 0.13 |
| (2,996) | 1:101:A:LEU:HD23 | 1:101:A:LEU:HG | 14 | 0.13 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 1 | 0.13 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD21 | 14 | 0.13 |
| (2,985) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HB2 | 9 | 0.13 |
| (2,956) | 1:148:A:GLU:HB2 | 1:148:A:GLU:H | 6 | 0.13 |
| (2,956) | 1:148:A:GLU:HB2 | 1:148:A:GLU:H | 14 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 2 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 5 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 12 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 15 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 16 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 17 | 0.13 |
| (2,948) | 1:16:A:GLN:HB2 | 1:16:A:GLN:HA | 18 | 0.13 |
| (2,918) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HE2 | 10 | 0.13 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 1 | 0.13 |
| (2,896) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG2 | 9 | 0.13 |
| (2,821) | 1:117:A:GLU:HG3 | 1:117:A:GLU:H | 8 | 0.13 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 3 | 0.13 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 9 | 0.13 |
| (2,798) | 1:118:A:ARG:HA | 1:122:A:LEU:HD21 | 1 | 0.13 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 6 | 0.13 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 9 | 0.13 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 18 | 0.13 |
| (2,681) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HB | 4 | 0.13 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 7 | 0.13 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 11 | 0.13 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 19 | 0.13 |
| (2,673) | 1:55:A:THR:HG23 | 1:62:A:LEU:H | 20 | 0.13 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 1 | 0.13 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 14 | 0.13 |
| (2,612) | 1:130:A:ALA:HA | 1:129:A:VAL:HG21 | 16 | 0.13 |
| (2,598) | 1:129:A:VAL:HG11 | 1:125:A:PHE:HD1 | 3 | 0.13 |
| (2,598) | 1:129:A:VAL:HG13 | 1:125:A:PHE:HD1 | 18 | 0.13 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 14 | 0.13 |
| (2,540) | 1:143:A:MET:HE3 | 1:76:A:TRP:HZ2 | 18 | 0.13 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 20 | 0.13 |
| (2,539) | 1:143:A:MET:HE1 | 1:154:A:TYR:H | 16 | 0.13 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 2 | 0.13 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 9 | 0.13 |
| (2,514) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB2 | 20 | 0.13 |
| (2,466) | 1:47:A:THR:HG23 | 1:49:A:TYR:HE1 | 4 | 0.13 |
| (2,457) | 1:48:A:THR:HG23 | 1:46:A:PHE:HE2 | 7 | 0.13 |
| (2,417) | 1:87:A:VAL:HG21 | 1:132:A:HIS:HD2 | 18 | 0.13 |
| (2,397) | 1:134:A:LEU:HG | 1:87:A:VAL:H | 2 | 0.13 |
| (2,397) | 1:134:A:LEU:HG | 1:87:A:VAL:H | 14 | 0.13 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG13 | 4 | 0.13 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG11 | 11 | 0.13 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG12 | 13 | 0.13 |
| (2,391) | 1:90:A:PRO:HB3 | 1:91:A:PRO:HD3 | 3 | 0.13 |
| (2,357) | 1:89:A:VAL:HG13 | 1:125:A:PHE:HZ | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,247) | 1:150:A:ILE:HG22 | 1:76:A:TRP:HZ2 | 18 | 0.13 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 1 | 0.13 |
| (2,241) | 1:150:A:ILE:HG23 | 1:151:A:ASP:H | 10 | 0.13 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG22 | 18 | 0.13 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG21 | 20 | 0.13 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG21 | 1 | 0.13 |
| (2,151) | 1:66:A:THR:HG23 | 1:50:A:GLU:H | 20 | 0.13 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 10 | 0.13 |
| (2,119) | 1:142:A:HIS:HA | 1:144:A:PHE:H | 17 | 0.13 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 10 | 0.13 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 14 | 0.13 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 20 | 0.13 |
| (2,52) | 1:83:A:ARG:HA | 1:83:A:ARG:HD2 | 6 | 0.13 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 4 | 0.13 |
| (2,15) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HB3 | 11 | 0.13 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 3 | 0.13 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 15 | 0.13 |
| (2,4968) | 1:152:A:LYS:HD2 | 1:76:A:TRP:HE1 | 13 | 0.12 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 5 | 0.12 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 12 | 0.12 |
| (2,4955) | 1:100:A:GLN:HE22 | 1:101:A:LEU:HD21 | 4 | 0.12 |
| (2,4931) | 1:139:A:ARG:H | 1:141:A:LEU:HD12 | 16 | 0.12 |
| (2,4931) | 1:139:A:ARG:H | 1:159:A:ILE:HG23 | 17 | 0.12 |
| (2,4886) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HB3 | 13 | 0.12 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 17 | 0.12 |
| (2,4853) | 1:100:A:GLN:HG2 | 1:100:A:GLN:H | 7 | 0.12 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 12 | 0.12 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 6 | 0.12 |
| (2,4836) | 1:65:A:SER:H | 1:54:A:LYS:HB2 | 11 | 0.12 |
| (2,4830) | 1:58:A:PRO:HB3 | 1:59:A:ILE:H | 1 | 0.12 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 12 | 0.12 |
| (2,4771) | 1:10:A:ARG:H | 1:9:A:ARG:HB3 | 2 | 0.12 |
| (2,4770) | 1:10:A:ARG:H | 1:10:A:ARG:HG2 | 19 | 0.12 |
| (2,4760) | 1:5:A:VAL:HG13 | 1:4:A:THR:H | 8 | 0.12 |
| (2,4741) | 1:5:A:VAL:HG23 | 1:5:A:VAL:H | 6 | 0.12 |
| (2,4722) | 1:161:A:HIS:HA | 1:160:A:ARG:H | 15 | 0.12 |
| (2,4721) | 1:160:A:ARG:H | 1:158:A:LYS:HE3 | 16 | 0.12 |
| (2,4719) | 1:151:A:ASP:HB2 | 1:152:A:LYS:H | 11 | 0.12 |
| (2,4711) | 1:60:A:PHE:H | 1:60:A:PHE:HZ | 4 | 0.12 |
| (2,4675) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HE22 | 20 | 0.12 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 11 | 0.12 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 19 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 6 | 0.12 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 3 | 0.12 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 10 | 0.12 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 14 | 0.12 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 12 | 0.12 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 19 | 0.12 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 9 | 0.12 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 11 | 0.12 |
| (2,4630) | 1:7:A:ASP:H | 1:5:A:VAL:HG12 | 17 | 0.12 |
| (2,4615) | 1:84:A:GLU:H | 1:82:A:GLU:H | 19 | 0.12 |
| (2,4585) | 1:95:A:LYS:HB2 | 1:95:A:LYS:HE2 | 20 | 0.12 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 11 | 0.12 |
| (2,4569) | 1:104:A:ARG:HB2 | 1:104:A:ARG:HG2 | 19 | 0.12 |
| (2,4549) | 1:160:A:ARG:HD2 | 1:159:A:ILE:HG12 | 17 | 0.12 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 3 | 0.12 |
| (2,4546) | 1:129:A:VAL:HG12 | 1:130:A:ALA:HA | 9 | 0.12 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 15 | 0.12 |
| (2,4546) | 1:129:A:VAL:HG13 | 1:130:A:ALA:HA | 17 | 0.12 |
| (2,4524) | 1:99:A:ARG:HD2 | 1:98:A:LEU:HD23 | 4 | 0.12 |
| (2,4498) | 1:137:A:ASN:HB2 | 1:138:A:GLU:HG2 | 7 | 0.12 |
| (2,4450) | 1:49:A:TYR:HA | 1:50:A:GLU:HB2 | 10 | 0.12 |
| (2,4441) | 1:33:A:VAL:HG12 | 1:122:A:LEU:H | 16 | 0.12 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 8 | 0.12 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 7 | 0.12 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 11 | 0.12 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 17 | 0.12 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD23 | 20 | 0.12 |
| (2,4407) | 1:14:A:LYS:HA | 1:14:A:LYS:HG2 | 16 | 0.12 |
| (2,4400) | 1:78:A:ARG:HD2 | 1:91:A:PRO:HB3 | 6 | 0.12 |
| (2,4375) | 1:43:A:ARG:HB3 | 1:43:A:ARG:HD3 | 1 | 0.12 |
| (2,4363) | 1:5:A:VAL:HG22 | 1:5:A:VAL:HB | 4 | 0.12 |
| (2,4327) | 1:33:A:VAL:HG21 | 1:122:A:LEU:H | 14 | 0.12 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 16 | 0.12 |
| (2,4310) | 1:10:A:ARG:HG3 | 1:10:A:ARG:HD2 | 20 | 0.12 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 3 | 0.12 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 8 | 0.12 |
| (2,4308) | 1:99:A:ARG:HD3 | 1:99:A:ARG:HA | 16 | 0.12 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 4 | 0.12 |
| (2,4276) | 1:75:A:GLU:HG2 | 1:74:A:PHE:HA | 4 | 0.12 |
| (2,4273) | 1:16:A:GLN:HG2 | 1:15:A:PRO:HA | 18 | 0.12 |
| (2,4272) | 1:80:A:GLU:HA | 1:77:A:LEU:HA | 16 | 0.12 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD3 | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4263) | 1:52:A:ARG:HD3 | 1:52:A:ARG:H | 9 | 0.12 |
| (2,4255) | 1:63:A:LYS:HG2 | 1:61:A:LYS:H | 18 | 0.12 |
| (2,4249) | 1:12:A:ILE:HD13 | 1:12:A:ILE:H | 4 | 0.12 |
| (2,4249) | 1:12:A:ILE:HD13 | 1:12:A:ILE:H | 7 | 0.12 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 2 | 0.12 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 10 | 0.12 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 11 | 0.12 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 13 | 0.12 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 18 | 0.12 |
| (2,4217) | 1:25:A:PRO:HA | 1:58:A:PRO:HD2 | 4 | 0.12 |
| (2,4217) | 1:25:A:PRO:HA | 1:58:A:PRO:HD2 | 7 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 6 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 10 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 13 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 15 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 17 | 0.12 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 20 | 0.12 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 3 | 0.12 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 4 | 0.12 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE3 | 9 | 0.12 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 1 | 0.12 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 6 | 0.12 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 18 | 0.12 |
| (2,4202) | 1:159:A:ILE:HG21 | 1:160:A:ARG:HD3 | 15 | 0.12 |
| (2,4190) | 1:77:A:LEU:HD23 | 1:80:A:GLU:HB2 | 10 | 0.12 |
| (2,4190) | 1:77:A:LEU:HD22 | 1:80:A:GLU:HB2 | 19 | 0.12 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 2 | 0.12 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 6 | 0.12 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 8 | 0.12 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 13 | 0.12 |
| (2,4173) | 1:63:A:LYS:HD3 | 1:63:A:LYS:H | 19 | 0.12 |
| (2,4159) | 1:53:A:VAL:HG12 | 1:66:A:THR:HA | 2 | 0.12 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 5 | 0.12 |
| (2,4157) | 1:57:A:LEU:HA | 1:58:A:PRO:HG3 | 15 | 0.12 |
| (2,4143) | 1:54:A:LYS:HA | 1:64:A:GLU:HG2 | 4 | 0.12 |
| (2,4138) | 1:137:A:ASN:HB3 | 1:134:A:LEU:HB3 | 16 | 0.12 |
| (2,4127) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 7 | 0.12 |
| (2,4127) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 12 | 0.12 |
| (2,4127) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 19 | 0.12 |
| (2,4098) | 1:59:A:ILE:HG22 | 1:60:A:PHE:HB3 | 9 | 0.12 |
| (2,4090) | 1:31:A:ILE:HD11 | 1:31:A:ILE:HG13 | 2 | 0.12 |
| (2,4090) | 1:31:A:ILE:HD12 | 1:31:A:ILE:HG13 | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4082) | 1:126:A:ILE:HD12 | 1:129:A:VAL:H | 19 | 0.12 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 10 | 0.12 |
| (2,4050) | 1:29:A:LEU:HD13 | 1:57:A:LEU:HG | 2 | 0.12 |
| (2,4046) | 1:29:A:LEU:HB3 | 1:31:A:ILE:HD11 | 18 | 0.12 |
| (2,4010) | 1:139:A:ARG:HB3 | 1:141:A:LEU:H | 4 | 0.12 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 10 | 0.12 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 19 | 0.12 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 20 | 0.12 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 18 | 0.12 |
| (2,3994) | 1:101:A:LEU:HD13 | 1:101:A:LEU:HG | 7 | 0.12 |
| (2,3987) | 1:26:A:SER:HB2 | 1:27:A:ASN:HB3 | 14 | 0.12 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 1 | 0.12 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 6 | 0.12 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 9 | 0.12 |
| (2,3978) | 1:10:A:ARG:HB2 | 1:10:A:ARG:HB3 | 12 | 0.12 |
| (2,3975) | 1:3:A:GLU:HG3 | 1:3:A:GLU:HB2 | 17 | 0.12 |
| (2,3963) | 1:109:A:ILE:HD13 | 1:107:A:ASP:HB3 | 8 | 0.12 |
| (2,3947) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HG2 | 1 | 0.12 |
| (2,3932) | 1:100:A:GLN:HB2 | 1:100:A:GLN:HG3 | 7 | 0.12 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 8 | 0.12 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:116:A:GLU:HB3 | 18 | 0.12 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 9 | 0.12 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 6 | 0.12 |
| (2,3894) | 1:92:A:LEU:HD21 | 1:93:A:PRO:HG2 | 17 | 0.12 |
| (2,3862) | 1:124:A:GLN:HG3 | 1:93:A:PRO:HG3 | 14 | 0.12 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 10 | 0.12 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 11 | 0.12 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 14 | 0.12 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 2 | 0.12 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 6 | 0.12 |
| (2,3849) | 1:53:A:VAL:HG23 | 1:55:A:THR:HG23 | 13 | 0.12 |
| (2,3783) | 1:143:A:MET:HE1 | 1:143:A:MET:HB3 | 11 | 0.12 |
| (2,3770) | 1:126:A:ILE:HG23 | 1:123:A:GLU:H | 9 | 0.12 |
| (2,3744) | 1:87:A:VAL:HG21 | 1:84:A:GLU:HB2 | 7 | 0.12 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 17 | 0.12 |
| (2,3703) | 1:92:A:LEU:HD13 | 1:78:A:ARG:HB2 | 14 | 0.12 |
| (2,3702) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG2 | 8 | 0.12 |
| (2,3691) | 1:150:A:ILE:HD13 | 1:143:A:MET:HB2 | 9 | 0.12 |
| (2,3690) | 1:150:A:ILE:HD11 | 1:143:A:MET:HG3 | 8 | 0.12 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 12 | 0.12 |
| (2,3608) | 1:131:A:GLY:HA2 | 1:130:A:ALA:HB2 | 5 | 0.12 |
| (2,3605) | 1:61:A:LYS:H | 1:22:A:TYR:HE1 | 19 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3571) | 1:76:A:TRP:HE1 | 1:150:A:ILE:HG13 | 12 | 0.12 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 15 | 0.12 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 18 | 0.12 |
| (2,3568) | 1:76:A:TRP:HE1 | 1:154:A:TYR:HE1 | 20 | 0.12 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 1 | 0.12 |
| (2,3560) | 1:122:A:LEU:HD13 | 1:121:A:GLY:H | 18 | 0.12 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 7 | 0.12 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 19 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 2 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 6 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 8 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 9 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 18 | 0.12 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 19 | 0.12 |
| (2,3301) | 1:87:A:VAL:HG21 | 1:81:A:LEU:H | 1 | 0.12 |
| (2,3248) | 1:129:A:VAL:HG23 | 1:132:A:HIS:H | 4 | 0.12 |
| (2,3248) | 1:129:A:VAL:HG22 | 1:132:A:HIS:H | 7 | 0.12 |
| (2,3201) | 1:47:A:THR:H | 1:46:A:PHE:HE2 | 20 | 0.12 |
| (2,3119) | 1:57:A:LEU:HD23 | 1:27:A:ASN:HD22 | 16 | 0.12 |
| (2,3058) | 1:17:A:ASN:H | 1:17:A:ASN:HB3 | 1 | 0.12 |
| (2,3053) | 1:16:A:GLN:HG3 | 1:16:A:GLN:H | 16 | 0.12 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 6 | 0.12 |
| (2,3042) | 1:14:A:LYS:H | 1:14:A:LYS:HD3 | 13 | 0.12 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 6 | 0.12 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 10 | 0.12 |
| (2,2997) | 1:6:A:ALA:H | 1:5:A:VAL:HB | 10 | 0.12 |
| (2,2996) | 1:6:A:ALA:HB3 | 1:6:A:ALA:H | 20 | 0.12 |
| (2,2977) | 1:3:A:GLU:HB2 | 1:3:A:GLU:H | 1 | 0.12 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG22 | 9 | 0.12 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG22 | 10 | 0.12 |
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 6 | 0.12 |
| (2,2834) | 1:113:A:ASN:HA | 1:113:A:ASN:HD21 | 11 | 0.12 |
| (2,2805) | 1:126:A:ILE:HD12 | 1:130:A:ALA:H | 13 | 0.12 |
| (2,2793) | 1:44:A:GLY:H | 1:42:A:GLY:HA2 | 13 | 0.12 |
| (2,2793) | 1:44:A:GLY:H | 1:42:A:GLY:HA2 | 16 | 0.12 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 3 | 0.12 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 5 | 0.12 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 10 | 0.12 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 18 | 0.12 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 4 | 0.12 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 11 | 0.12 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 18 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 17 | 0.12 |
| (2,2716) | 1:35:A:ASN:HD22 | 1:35:A:ASN:HA | 17 | 0.12 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 7 | 0.12 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 17 | 0.12 |
| (2,2644) | 1:153:A:SER:H | 1:152:A:LYS:HG3 | 14 | 0.12 |
| (2,2628) | 1:148:A:GLU:H | 1:149:A:ILE:H | 1 | 0.12 |
| (2,2611) | 1:150:A:ILE:HD12 | 1:144:A:PHE:H | 12 | 0.12 |
| (2,2587) | 1:7:A:ASP:H | 1:7:A:ASP:HB2 | 8 | 0.12 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 16 | 0.12 |
| (2,2531) | 1:84:A:GLU:HB3 | 1:85:A:SER:H | 14 | 0.12 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 5 | 0.12 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 14 | 0.12 |
| (2,2428) | 1:20:A:ASP:H | 1:19:A:ASN:HB3 | 8 | 0.12 |
| (2,2428) | 1:20:A:ASP:H | 1:19:A:ASN:HB3 | 16 | 0.12 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 10 | 0.12 |
| (2,2349) | 1:23:A:GLY:HA2 | 1:24:A:PRO:HB2 | 4 | 0.12 |
| (2,2339) | 1:123:A:GLU:HB2 | 1:124:A:GLN:HE22 | 18 | 0.12 |
| (2,2321) | 1:81:A:LEU:HD23 | 1:87:A:VAL:HB | 9 | 0.12 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 10 | 0.12 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 14 | 0.12 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 20 | 0.12 |
| (2,2298) | 1:18:A:LEU:HD22 | 1:17:A:ASN:H | 4 | 0.12 |
| (2,2285) | 1:161:A:HIS:HA | 1:161:A:HIS:HD2 | 1 | 0.12 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD12 | 8 | 0.12 |
| (2,2212) | 1:77:A:LEU:HD13 | 1:144:A:PHE:HZ | 10 | 0.12 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG12 | 17 | 0.12 |
| (2,2145) | 1:33:A:VAL:HB | 1:123:A:GLU:HA | 16 | 0.12 |
| (2,2132) | 1:30:A:GLU:HB2 | 1:30:A:GLU:H | 16 | 0.12 |
| (2,2131) | 1:29:A:LEU:HD21 | 1:136:A:GLN:HE21 | 20 | 0.12 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 9 | 0.12 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 10 | 0.12 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 12 | 0.12 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 11 | 0.12 |
| (2,2063) | 1:94:A:GLY:HA3 | 1:97:A:PHE:HE2 | 14 | 0.12 |
| (2,2057) | 1:150:A:ILE:HG13 | 1:149:A:ILE:HA | 11 | 0.12 |
| (2,2011) | 1:134:A:LEU:HD13 | 1:88:A:VAL:H | 2 | 0.12 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 1 | 0.12 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 6 | 0.12 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 1 | 0.12 |
| (2,1922) | 1:33:A:VAL:HG21 | 1:33:A:VAL:HA | 6 | 0.12 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG21 | 15 | 0.12 |
| (2,1907) | 1:117:A:GLU:HG2 | 1:97:A:PHE:HB2 | 13 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 10 | 0.12 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG21 | 6 | 0.12 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG22 | 7 | 0.12 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG22 | 17 | 0.12 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 14 | 0.12 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 10 | 0.12 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 16 | 0.12 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 19 | 0.12 |
| (2,1790) | 1:83:A:ARG:HD3 | 1:83:A:ARG:H | 5 | 0.12 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 10 | 0.12 |
| (2,1767) | 1:92:A:LEU:HD23 | 1:75:A:GLU:HG3 | 7 | 0.12 |
| (2,1729) | 1:63:A:LYS:HE3 | 1:58:A:PRO:HA | 5 | 0.12 |
| (2,1706) | 1:47:A:THR:HG23 | 1:36:A:PRO:HG2 | 5 | 0.12 |
| (2,1693) | 1:34:A:SER:HB3 | 1:119:A:LYS:HB2 | 16 | 0.12 |
| (2,1679) | 1:126:A:ILE:HG21 | 1:31:A:ILE:HG23 | 12 | 0.12 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG21 | 6 | 0.12 |
| (2,1649) | 1:90:A:PRO:HD3 | 1:125:A:PHE:HE1 | 16 | 0.12 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG23 | 1 | 0.12 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 14 | 0.12 |
| (2,1585) | 1:141:A:LEU:HD11 | 1:141:A:LEU:H | 8 | 0.12 |
| (2,1538) | 1:41:A:VAL:HA | 1:45:A:ARG:HB2 | 15 | 0.12 |
| (2,1511) | 1:59:A:ILE:HG23 | 1:57:A:LEU:HG | 1 | 0.12 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 6 | 0.12 |
| (2,1506) | 1:52:A:ARG:HG3 | 1:53:A:VAL:H | 2 | 0.12 |
| (2,1489) | 1:29:A:LEU:HD13 | 1:55:A:THR:HA | 17 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 3 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 9 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 12 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 15 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 16 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 18 | 0.12 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 19 | 0.12 |
| (2,1432) | 1:149:A:ILE:HB | 1:148:A:GLU:H | 8 | 0.12 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 8 | 0.12 |
| (2,1387) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HA | 9 | 0.12 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG22 | 2 | 0.12 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 1 | 0.12 |
| (2,1328) | 1:115:A:ILE:HG21 | 1:114:A:PHE:HE2 | 16 | 0.12 |
| (2,1308) | 1:31:A:ILE:HD12 | 1:127:A:ASN:H | 20 | 0.12 |
| (2,1249) | 1:101:A:LEU:HB3 | 1:101:A:LEU:H | 2 | 0.12 |
| (2,1249) | 1:101:A:LEU:HB3 | 1:101:A:LEU:H | 14 | 0.12 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 6 | 0.12 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 15 | 0.12 |
| (2,1137) | 1:59:A:ILE:HD12 | 1:59:A:ILE:HB | 17 | 0.12 |
| (2,1113) | 1:149:A:ILE:HD11 | 1:149:A:ILE:HB | 6 | 0.12 |
| (2,1113) | 1:149:A:ILE:HD11 | 1:149:A:ILE:HB | 11 | 0.12 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 18 | 0.12 |
| (2,1107) | 1:12:A:ILE:HD13 | 1:12:A:ILE:HG13 | 19 | 0.12 |
| (2,1084) | 1:139:A:ARG:HD2 | 1:161:A:HIS:HD2 | 14 | 0.12 |
| (2,1079) | 1:139:A:ARG:HD3 | 1:139:A:ARG:HG3 | 1 | 0.12 |
| (2,1075) | 1:139:A:ARG:HD2 | 1:139:A:ARG:H | 17 | 0.12 |
| (2,1055) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HA | 9 | 0.12 |
| (2,1044) | 1:148:A:GLU:HG3 | 1:149:A:ILE:HG12 | 12 | 0.12 |
| (2,1042) | 1:149:A:ILE:HA | 1:149:A:ILE:HG12 | 1 | 0.12 |
| (2,1024) | 1:148:A:GLU:HG3 | 1:149:A:ILE:H | 3 | 0.12 |
| (2,1024) | 1:148:A:GLU:HG3 | 1:149:A:ILE:H | 4 | 0.12 |
| (2,1000) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD11 | 9 | 0.12 |
| (2,995) | 1:101:A:LEU:HD23 | 1:101:A:LEU:H | 7 | 0.12 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD22 | 4 | 0.12 |
| (2,982) | 1:12:A:ILE:HA | 1:12:A:ILE:HG13 | 14 | 0.12 |
| (2,957) | 1:148:A:GLU:HB3 | 1:148:A:GLU:H | 6 | 0.12 |
| (2,957) | 1:148:A:GLU:HB3 | 1:148:A:GLU:H | 14 | 0.12 |
| (2,927) | 1:109:A:ILE:HD11 | 1:109:A:ILE:HG21 | 12 | 0.12 |
| (2,926) | 1:109:A:ILE:HD12 | 1:45:A:ARG:HB3 | 5 | 0.12 |
| (2,897) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG3 | 19 | 0.12 |
| (2,869) | 1:115:A:ILE:HD12 | 1:36:A:PRO:HG2 | 6 | 0.12 |
| (2,821) | 1:117:A:GLU:HG3 | 1:117:A:GLU:H | 12 | 0.12 |
| (2,821) | 1:117:A:GLU:HG3 | 1:117:A:GLU:H | 13 | 0.12 |
| (2,712) | 1:124:A:GLN:HG3 | 1:123:A:GLU:H | 15 | 0.12 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 4 | 0.12 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 7 | 0.12 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 12 | 0.12 |
| (2,702) | 1:121:A:GLY:HA2 | 1:124:A:GLN:HB3 | 18 | 0.12 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 13 | 0.12 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 5 | 0.12 |
| (2,681) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HB | 6 | 0.12 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 14 | 0.12 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 15 | 0.12 |
| (2,681) | 1:159:A:ILE:HG21 | 1:159:A:ILE:HB | 18 | 0.12 |
| (2,681) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HB | 20 | 0.12 |
| (2,675) | 1:55:A:THR:HG21 | 1:56:A:ASN:H | 5 | 0.12 |
| (2,673) | 1:55:A:THR:HG21 | 1:62:A:LEU:H | 14 | 0.12 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 8 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 10 | 0.12 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 13 | 0.12 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 15 | 0.12 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 20 | 0.12 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 18 | 0.12 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB3 | 2 | 0.12 |
| (2,623) | 1:129:A:VAL:HG22 | 1:130:A:ALA:HB2 | 12 | 0.12 |
| (2,596) | 1:129:A:VAL:HG11 | 1:128:A:LYS:H | 18 | 0.12 |
| (2,592) | 1:129:A:VAL:HA | 1:87:A:VAL:HG11 | 16 | 0.12 |
| (2,574) | 1:143:A:MET:HG2 | 1:150:A:ILE:H | 17 | 0.12 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD2 | 2 | 0.12 |
| (2,541) | 1:143:A:MET:HE2 | 1:144:A:PHE:HD2 | 5 | 0.12 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 8 | 0.12 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 11 | 0.12 |
| (2,526) | 1:122:A:LEU:HD13 | 1:75:A:GLU:H | 6 | 0.12 |
| (2,516) | 1:122:A:LEU:HD11 | 1:92:A:LEU:HA | 4 | 0.12 |
| (2,516) | 1:122:A:LEU:HD13 | 1:92:A:LEU:HA | 19 | 0.12 |
| (2,513) | 1:122:A:LEU:HD12 | 1:122:A:LEU:HB3 | 11 | 0.12 |
| (2,454) | 1:141:A:LEU:HD12 | 1:77:A:LEU:HD13 | 3 | 0.12 |
| (2,417) | 1:87:A:VAL:HG23 | 1:132:A:HIS:HD2 | 13 | 0.12 |
| (2,397) | 1:134:A:LEU:HG | 1:87:A:VAL:H | 17 | 0.12 |
| (2,395) | 1:90:A:PRO:HG3 | 1:129:A:VAL:HG13 | 5 | 0.12 |
| (2,394) | 1:90:A:PRO:HG2 | 1:129:A:VAL:HG11 | 8 | 0.12 |
| (2,372) | 1:89:A:VAL:HG11 | 1:81:A:LEU:HB2 | 20 | 0.12 |
| (2,357) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HZ | 13 | 0.12 |
| (2,351) | 1:42:A:GLY:HA3 | 1:41:A:VAL:HG11 | 17 | 0.12 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 15 | 0.12 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 1 | 0.12 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 4 | 0.12 |
| (2,306) | 1:92:A:LEU:HD22 | 1:75:A:GLU:H | 17 | 0.12 |
| (2,273) | 1:22:A:TYR:HB3 | 1:28:A:PHE:HD2 | 10 | 0.12 |
| (2,273) | 1:22:A:TYR:HB3 | 1:28:A:PHE:HD2 | 16 | 0.12 |
| (2,273) | 1:22:A:TYR:HB3 | 1:28:A:PHE:HD2 | 20 | 0.12 |
| (2,246) | 1:150:A:ILE:HG12 | 1:150:A:ILE:H | 18 | 0.12 |
| (2,241) | 1:150:A:ILE:HG23 | 1:151:A:ASP:H | 11 | 0.12 |
| (2,232) | 1:151:A:ASP:HB3 | 1:150:A:ILE:HG23 | 11 | 0.12 |
| (2,213) | 1:158:A:LYS:HB3 | 1:137:A:ASN:HD21 | 10 | 0.12 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG21 | 10 | 0.12 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG21 | 15 | 0.12 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG22 | 20 | 0.12 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 7 | 0.12 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 17 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,125) | 1:127:A:ASN:HA | 1:127:A:ASN:HD22 | 10 | 0.12 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 9 | 0.12 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 15 | 0.12 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 18 | 0.12 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG22 | 4 | 0.12 |
| (2,47) | 1:83:A:ARG:HB2 | 1:83:A:ARG:HD3 | 14 | 0.12 |
| (1,11) | 1:51:A:ILE:H | 1:67:A:VAL:O | 11 | 0.12 |
| (2,4975) | 1:108:A:GLY:H | 1:105:A:GLY:HA3 | 3 | 0.11 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 2 | 0.11 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 15 | 0.11 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 20 | 0.11 |
| (2,4942) | 1:140:A:CYS:H | 1:139:A:ARG:HG2 | 13 | 0.11 |
| (2,4929) | 1:137:A:ASN:HD22 | 1:160:A:ARG:HB2 | 2 | 0.11 |
| (2,4899) | 1:124:A:GLN:HE22 | 1:121:A:GLY:HA2 | 6 | 0.11 |
| (2,4886) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HB3 | 5 | 0.11 |
| (2,4886) | 1:120:A:GLN:HE21 | 1:117:A:GLU:HB3 | 19 | 0.11 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 4 | 0.11 |
| (2,4883) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HG3 | 9 | 0.11 |
| (2,4864) | 1:107:A:ASP:H | 1:108:A:GLY:HA2 | 18 | 0.11 |
| (2,4851) | 1:89:A:VAL:H | 1:82:A:GLU:H | 4 | 0.11 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD12 | 19 | 0.11 |
| (2,4839) | 1:129:A:VAL:H | 1:81:A:LEU:HD13 | 20 | 0.11 |
| (2,4816) | 1:81:A:LEU:HD22 | 1:81:A:LEU:H | 9 | 0.11 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 5 | 0.11 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 16 | 0.11 |
| (2,4769) | 1:9:A:ARG:H | 1:9:A:ARG:HG2 | 10 | 0.11 |
| (2,4751) | 1:34:A:SER:H | 1:32:A:ASP:HB3 | 20 | 0.11 |
| (2,4733) | 1:111:A:ASP:H | 1:110:A:PHE:HD1 | 2 | 0.11 |
| (2,4731) | 1:37:A:GLN:H | 1:36:A:PRO:HG2 | 11 | 0.11 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 10 | 0.11 |
| (2,4707) | 1:46:A:PHE:H | 1:44:A:GLY:HA2 | 19 | 0.11 |
| (2,4705) | 1:78:A:ARG:H | 1:81:A:LEU:HB2 | 20 | 0.11 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 16 | 0.11 |
| (2,4687) | 1:136:A:GLN:H | 1:134:A:LEU:HD12 | 7 | 0.11 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 12 | 0.11 |
| (2,4680) | 1:137:A:ASN:H | 1:159:A:ILE:HB | 14 | 0.11 |
| (2,4665) | 1:159:A:ILE:H | 1:158:A:LYS:HE2 | 12 | 0.11 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB3 | 4 | 0.11 |
| (2,4664) | 1:154:A:TYR:H | 1:153:A:SER:HB2 | 11 | 0.11 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 11 | 0.11 |
| (2,4661) | 1:153:A:SER:H | 1:152:A:LYS:HB3 | 15 | 0.11 |
| (2,4653) | 1:146:A:GLN:H | 1:67:A:VAL:HG12 | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 5 | 0.11 |
| (2,4642) | 1:138:A:GLU:HB3 | 1:138:A:GLU:H | 16 | 0.11 |
| (2,4616) | 1:85:A:SER:H | 1:82:A:GLU:HB2 | 8 | 0.11 |
| (2,4611) | 1:80:A:GLU:H | 1:77:A:LEU:HD23 | 9 | 0.11 |
| (2,4573) | 1:68:A:ARG:HD3 | 1:68:A:ARG:HB3 | 15 | 0.11 |
| (2,4569) | 1:104:A:ARG:HB2 | 1:104:A:ARG:HG2 | 14 | 0.11 |
| (2,4566) | 1:157:A:SER:HB2 | 1:139:A:ARG:HD3 | 10 | 0.11 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 14 | 0.11 |
| (2,4547) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG11 | 17 | 0.11 |
| (2,4546) | 1:129:A:VAL:HG11 | 1:130:A:ALA:HA | 16 | 0.11 |
| (2,4528) | 1:120:A:GLN:HG3 | 1:122:A:LEU:H | 11 | 0.11 |
| (2,4490) | 1:128:A:LYS:HD3 | 1:90:A:PRO:HB3 | 12 | 0.11 |
| (2,4484) | 1:95:A:LYS:HG2 | 1:95:A:LYS:HE2 | 20 | 0.11 |
| (2,4473) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HB2 | 2 | 0.11 |
| (2,4473) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HB2 | 4 | 0.11 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 10 | 0.11 |
| (2,4462) | 1:62:A:LEU:HD12 | 1:61:A:LYS:HA | 14 | 0.11 |
| (2,4462) | 1:62:A:LEU:HD13 | 1:61:A:LYS:HA | 15 | 0.11 |
| (2,4432) | 1:30:A:GLU:HB3 | 1:28:A:PHE:HE1 | 11 | 0.11 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 2 | 0.11 |
| (2,4415) | 1:134:A:LEU:HG | 1:134:A:LEU:HD22 | 10 | 0.11 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD13 | 7 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG13 | 1:5:A:VAL:HB | 5 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG12 | 1:5:A:VAL:HB | 6 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG12 | 1:5:A:VAL:HB | 7 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG21 | 1:5:A:VAL:HB | 15 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG11 | 1:5:A:VAL:HB | 18 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG11 | 1:5:A:VAL:HB | 19 | 0.11 |
| (2,4363) | 1:5:A:VAL:HG12 | 1:5:A:VAL:HB | 20 | 0.11 |
| (2,4347) | 1:145:A:LEU:HD21 | 1:144:A:PHE:HD2 | 8 | 0.11 |
| (2,4327) | 1:33:A:VAL:HG23 | 1:122:A:LEU:H | 12 | 0.11 |
| (2,4327) | 1:33:A:VAL:HG22 | 1:122:A:LEU:H | 15 | 0.11 |
| (2,4326) | 1:33:A:VAL:HG23 | 1:125:A:PHE:HD2 | 16 | 0.11 |
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 10 | 0.11 |
| (2,4278) | 1:9:A:ARG:HA | 1:9:A:ARG:HG2 | 16 | 0.11 |
| (2,4277) | 1:9:A:ARG:HB3 | 1:9:A:ARG:HA | 11 | 0.11 |
| (2,4275) | 1:82:A:GLU:HG2 | 1:78:A:ARG:HG2 | 13 | 0.11 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD2 | 2 | 0.11 |
| (2,4269) | 1:52:A:ARG:HB2 | 1:52:A:ARG:HD2 | 5 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 1 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 6 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 7 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 9 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 12 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 19 | 0.11 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 20 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 4 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 7 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 11 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 12 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 14 | 0.11 |
| (2,4208) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HG3 | 19 | 0.11 |
| (2,4206) | 1:86:A:LYS:HD3 | 1:86:A:LYS:HE2 | 7 | 0.11 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 7 | 0.11 |
| (2,4205) | 1:158:A:LYS:HD2 | 1:159:A:ILE:H | 12 | 0.11 |
| (2,4196) | 1:160:A:ARG:HD3 | 1:137:A:ASN:H | 8 | 0.11 |
| (2,4186) | 1:77:A:LEU:HD21 | 1:144:A:PHE:HB3 | 7 | 0.11 |
| (2,4179) | 1:141:A:LEU:HD12 | 1:60:A:PHE:HZ | 13 | 0.11 |
| (2,4162) | 1:134:A:LEU:HB3 | 1:134:A:LEU:HD12 | 4 | 0.11 |
| (2,4159) | 1:53:A:VAL:HG13 | 1:66:A:THR:HA | 17 | 0.11 |
| (2,4127) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 3 | 0.11 |
| (2,4127) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 10 | 0.11 |
| (2,4127) | 1:149:A:ILE:HD12 | 1:149:A:ILE:HB | 15 | 0.11 |
| (2,4112) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB3 | 13 | 0.11 |
| (2,4103) | 1:51:A:ILE:HG22 | 1:60:A:PHE:HE2 | 6 | 0.11 |
| (2,4100) | 1:59:A:ILE:HG23 | 1:141:A:LEU:HB2 | 17 | 0.11 |
| (2,4098) | 1:59:A:ILE:HG21 | 1:60:A:PHE:HB3 | 16 | 0.11 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 8 | 0.11 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 9 | 0.11 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 15 | 0.11 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 16 | 0.11 |
| (2,4052) | 1:29:A:LEU:HD23 | 1:57:A:LEU:HG | 18 | 0.11 |
| (2,4043) | 1:45:A:ARG:HD2 | 1:45:A:ARG:H | 1 | 0.11 |
| (2,4010) | 1:139:A:ARG:HB3 | 1:141:A:LEU:H | 18 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 7 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 15 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 17 | 0.11 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 18 | 0.11 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD11 | 13 | 0.11 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HG21 | 17 | 0.11 |
| (2,3996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 15 | 0.11 |
| (2,3976) | 1:104:A:ARG:HA | 1:104:A:ARG:HG3 | 14 | 0.11 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 8 | 0.11 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 15 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3959) | 1:109:A:ILE:HD11 | 1:110:A:PHE:HE1 | 18 | 0.11 |
| (2,3958) | 1:109:A:ILE:HD11 | 1:107:A:ASP:H | 6 | 0.11 |
| (2,3958) | 1:109:A:ILE:HD13 | 1:107:A:ASP:H | 14 | 0.11 |
| (2,3950) | 1:113:A:ASN:HA | 1:116:A:GLU:HB3 | 14 | 0.11 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:120:A:GLN:HB3 | 7 | 0.11 |
| (2,3910) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HA | 14 | 0.11 |
| (2,3910) | 1:119:A:LYS:HE3 | 1:120:A:GLN:HA | 19 | 0.11 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 11 | 0.11 |
| (2,3895) | 1:120:A:GLN:HA | 1:122:A:LEU:H | 9 | 0.11 |
| (2,3892) | 1:93:A:PRO:HG2 | 1:71:A:TYR:HE1 | 15 | 0.11 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 12 | 0.11 |
| (2,3849) | 1:55:A:THR:HG21 | 1:29:A:LEU:HD13 | 1 | 0.11 |
| (2,3849) | 1:55:A:THR:HG23 | 1:29:A:LEU:HD11 | 5 | 0.11 |
| (2,3830) | 1:129:A:VAL:HG12 | 1:128:A:LYS:HD3 | 7 | 0.11 |
| (2,3830) | 1:129:A:VAL:HG11 | 1:128:A:LYS:HD3 | 18 | 0.11 |
| (2,3817) | 1:128:A:LYS:HD2 | 1:129:A:VAL:H | 9 | 0.11 |
| (2,3815) | 1:14:A:LYS:HB3 | 1:14:A:LYS:HG3 | 1 | 0.11 |
| (2,3800) | 1:129:A:VAL:HA | 1:88:A:VAL:HG12 | 20 | 0.11 |
| (2,3783) | 1:143:A:MET:HE2 | 1:143:A:MET:HB3 | 14 | 0.11 |
| (2,3770) | 1:126:A:ILE:HG23 | 1:123:A:GLU:H | 1 | 0.11 |
| (2,3770) | 1:126:A:ILE:HG22 | 1:123:A:GLU:H | 12 | 0.11 |
| (2,3757) | 1:47:A:THR:HG22 | 1:115:A:ILE:HA | 7 | 0.11 |
| (2,3747) | 1:0:A:GLY:HA2 | 1:-1:A:VAL:HG23 | 16 | 0.11 |
| (2,3715) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HD3 | 9 | 0.11 |
| (2,3694) | 1:150:A:ILE:HD11 | 1:69:A:ARG:HG2 | 4 | 0.11 |
| (2,3691) | 1:150:A:ILE:HD12 | 1:143:A:MET:HB2 | 14 | 0.11 |
| (2,3670) | 1:58:A:PRO:HA | 1:58:A:PRO:HD2 | 4 | 0.11 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD13 | 5 | 0.11 |
| (2,3669) | 1:60:A:PHE:HA | 1:59:A:ILE:HD11 | 14 | 0.11 |
| (2,3666) | 1:63:A:LYS:HB3 | 1:63:A:LYS:HG2 | 5 | 0.11 |
| (2,3663) | 1:64:A:GLU:HA | 1:64:A:GLU:HG2 | 13 | 0.11 |
| (2,3584) | 1:108:A:GLY:H | 1:109:A:ILE:HA | 11 | 0.11 |
| (2,3579) | 1:38:A:THR:H | 1:39:A:VAL:HG22 | 1 | 0.11 |
| (2,3579) | 1:38:A:THR:H | 1:39:A:VAL:HG21 | 4 | 0.11 |
| (2,3560) | 1:122:A:LEU:HD11 | 1:121:A:GLY:H | 5 | 0.11 |
| (2,3537) | 1:100:A:GLN:HE21 | 1:100:A:GLN:HB2 | 17 | 0.11 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 6 | 0.11 |
| (2,3523) | 1:162:A:ALA:HB3 | 1:162:A:ALA:H | 9 | 0.11 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 13 | 0.11 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 20 | 0.11 |
| (2,3419) | 1:124:A:GLN:HE21 | 1:123:A:GLU:HG3 | 16 | 0.11 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 4 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 12 | 0.11 |
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 17 | 0.11 |
| (2,3332) | 1:158:A:LYS:H | 1:137:A:ASN:HD21 | 4 | 0.11 |
| (2,3289) | 1:150:A:ILE:HD11 | 1:73:A:ASP:H | 11 | 0.11 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 10 | 0.11 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 15 | 0.11 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 16 | 0.11 |
| (2,3262) | 1:62:A:LEU:H | 1:64:A:GLU:H | 20 | 0.11 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD12 | 3 | 0.11 |
| (2,3235) | 1:54:A:LYS:H | 1:31:A:ILE:HD13 | 14 | 0.11 |
| (2,3195) | 1:40:A:GLY:H | 1:38:A:THR:HG21 | 20 | 0.11 |
| (2,3119) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HD22 | 13 | 0.11 |
| (2,3119) | 1:57:A:LEU:HD21 | 1:27:A:ASN:HD22 | 14 | 0.11 |
| (2,3082) | 1:23:A:GLY:H | 1:22:A:TYR:HD2 | 2 | 0.11 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 16 | 0.11 |
| (2,2996) | 1:6:A:ALA:HB1 | 1:6:A:ALA:H | 1 | 0.11 |
| (2,2996) | 1:6:A:ALA:HB2 | 1:6:A:ALA:H | 18 | 0.11 |
| (2,2995) | 1:4:A:THR:HA | 1:5:A:VAL:H | 12 | 0.11 |
| (2,2982) | 1:4:A:THR:HG23 | 1:4:A:THR:H | 4 | 0.11 |
| (2,2972) | 1:2:A:ALA:HB1 | 1:2:A:ALA:H | 2 | 0.11 |
| (2,2971) | 1:2:A:ALA:H | 1:1:A:THR:HG23 | 15 | 0.11 |
| (2,2885) | 1:160:A:ARG:H | 1:137:A:ASN:HD22 | 17 | 0.11 |
| (2,2834) | 1:113:A:ASN:HA | 1:113:A:ASN:HD21 | 4 | 0.11 |
| (2,2833) | 1:113:A:ASN:HD22 | 1:113:A:ASN:HA | 17 | 0.11 |
| (2,2793) | 1:44:A:GLY:H | 1:42:A:GLY:HA2 | 2 | 0.11 |
| (2,2780) | 1:42:A:GLY:H | 1:45:A:ARG:HG3 | 13 | 0.11 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 8 | 0.11 |
| (2,2761) | 1:45:A:ARG:HD3 | 1:45:A:ARG:H | 11 | 0.11 |
| (2,2739) | 1:137:A:ASN:H | 1:136:A:GLN:HG3 | 20 | 0.11 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 9 | 0.11 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 12 | 0.11 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 15 | 0.11 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 16 | 0.11 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 4 | 0.11 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 15 | 0.11 |
| (2,2669) | 1:104:A:ARG:H | 1:103:A:PHE:HD2 | 12 | 0.11 |
| (2,2655) | 1:153:A:SER:H | 1:151:A:ASP:H | 19 | 0.11 |
| (2,2642) | 1:153:A:SER:H | 1:150:A:ILE:HG22 | 13 | 0.11 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 13 | 0.11 |
| (2,2611) | 1:150:A:ILE:HD11 | 1:144:A:PHE:H | 17 | 0.11 |
| (2,2587) | 1:7:A:ASP:H | 1:7:A:ASP:HB2 | 9 | 0.11 |
| (2,2587) | 1:7:A:ASP:H | 1:7:A:ASP:HB2 | 16 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2543) | 1:85:A:SER:HA | 1:87:A:VAL:H | 5 | 0.11 |
| (2,2543) | 1:85:A:SER:HA | 1:87:A:VAL:H | 18 | 0.11 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 1 | 0.11 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 13 | 0.11 |
| (2,2533) | 1:85:A:SER:H | 1:81:A:LEU:HD23 | 4 | 0.11 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 1 | 0.11 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 4 | 0.11 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 11 | 0.11 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 15 | 0.11 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 17 | 0.11 |
| (2,2502) | 1:79:A:SER:H | 1:77:A:LEU:HB2 | 9 | 0.11 |
| (2,2470) | 1:72:A:SER:H | 1:75:A:GLU:HB3 | 7 | 0.11 |
| (2,2364) | 1:53:A:VAL:HG21 | 1:145:A:LEU:HB2 | 9 | 0.11 |
| (2,2346) | 1:88:A:VAL:HG12 | 1:90:A:PRO:HD2 | 1 | 0.11 |
| (2,2321) | 1:81:A:LEU:HD21 | 1:87:A:VAL:HB | 18 | 0.11 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 2 | 0.11 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 3 | 0.11 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 9 | 0.11 |
| (2,2317) | 1:74:A:PHE:HB2 | 1:125:A:PHE:HD2 | 15 | 0.11 |
| (2,2305) | 1:120:A:GLN:HA | 1:33:A:VAL:HG21 | 17 | 0.11 |
| (2,2267) | 1:135:A:ALA:HB1 | 1:136:A:GLN:HG3 | 6 | 0.11 |
| (2,2267) | 1:135:A:ALA:HB3 | 1:136:A:GLN:HG3 | 18 | 0.11 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 9 | 0.11 |
| (2,2232) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HD1 | 11 | 0.11 |
| (2,2212) | 1:77:A:LEU:HD12 | 1:144:A:PHE:HZ | 1 | 0.11 |
| (2,2207) | 1:71:A:TYR:HA | 1:122:A:LEU:HB3 | 3 | 0.11 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG23 | 10 | 0.11 |
| (2,2121) | 1:58:A:PRO:HB2 | 1:59:A:ILE:HA | 4 | 0.11 |
| (2,2105) | 1:14:A:LYS:HE3 | 1:13:A:THR:H | 18 | 0.11 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 2 | 0.11 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 7 | 0.11 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 17 | 0.11 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 18 | 0.11 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 19 | 0.11 |
| (2,2057) | 1:150:A:ILE:HG13 | 1:149:A:ILE:HA | 5 | 0.11 |
| (2,2030) | 1:54:A:LYS:HB3 | 1:28:A:PHE:HD1 | 9 | 0.11 |
| (2,2030) | 1:54:A:LYS:HB3 | 1:28:A:PHE:HD1 | 15 | 0.11 |
| (2,2005) | 1:51:A:ILE:HD12 | 1:69:A:ARG:HA | 12 | 0.11 |
| (2,2005) | 1:51:A:ILE:HD11 | 1:69:A:ARG:HA | 19 | 0.11 |
| (2,2003) | 1:69:A:ARG:HA | 1:67:A:VAL:HG23 | 10 | 0.11 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 14 | 0.11 |
| (2,1990) | 1:156:A:PRO:HG3 | 1:154:A:TYR:HD1 | 19 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1965) | 1:149:A:ILE:HD12 | 1:150:A:ILE:HA | 8 | 0.11 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 13 | 0.11 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 19 | 0.11 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 20 | 0.11 |
| (2,1930) | 1:141:A:LEU:HD23 | 1:130:A:ALA:H | 11 | 0.11 |
| (2,1928) | 1:142:A:HIS:HB3 | 1:141:A:LEU:H | 13 | 0.11 |
| (2,1922) | 1:33:A:VAL:HG22 | 1:33:A:VAL:HA | 3 | 0.11 |
| (2,1917) | 1:123:A:GLU:HB2 | 1:33:A:VAL:HG22 | 13 | 0.11 |
| (2,1906) | 1:117:A:GLU:HG3 | 1:97:A:PHE:HB2 | 9 | 0.11 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 6 | 0.11 |
| (2,1850) | 1:95:A:LYS:HA | 1:95:A:LYS:HG2 | 16 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG21 | 5 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG23 | 9 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG21 | 10 | 0.11 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG23 | 20 | 0.11 |
| (2,1813) | 1:86:A:LYS:HG3 | 1:86:A:LYS:HA | 4 | 0.11 |
| (2,1791) | 1:83:A:ARG:HD2 | 1:83:A:ARG:H | 8 | 0.11 |
| (2,1790) | 1:83:A:ARG:HD3 | 1:83:A:ARG:H | 12 | 0.11 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 6 | 0.11 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 17 | 0.11 |
| (2,1759) | 1:159:A:ILE:HB | 1:137:A:ASN:HD21 | 5 | 0.11 |
| (2,1724) | 1:63:A:LYS:HE2 | 1:63:A:LYS:H | 4 | 0.11 |
| (2,1706) | 1:47:A:THR:HG21 | 1:36:A:PRO:HG2 | 12 | 0.11 |
| (2,1700) | 1:115:A:ILE:HG23 | 1:36:A:PRO:HD2 | 14 | 0.11 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 12 | 0.11 |
| (2,1675) | 1:123:A:GLU:HA | 1:31:A:ILE:HG22 | 18 | 0.11 |
| (2,1633) | 1:54:A:LYS:HE2 | 1:54:A:LYS:HB2 | 14 | 0.11 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG21 | 5 | 0.11 |
| (2,1589) | 1:141:A:LEU:HB2 | 1:141:A:LEU:HD13 | 7 | 0.11 |
| (2,1583) | 1:141:A:LEU:HD13 | 1:138:A:GLU:H | 5 | 0.11 |
| (2,1538) | 1:41:A:VAL:HA | 1:45:A:ARG:HB2 | 18 | 0.11 |
| (2,1511) | 1:59:A:ILE:HG21 | 1:57:A:LEU:HG | 15 | 0.11 |
| (2,1489) | 1:29:A:LEU:HD11 | 1:55:A:THR:HA | 12 | 0.11 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 2 | 0.11 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 6 | 0.11 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 7 | 0.11 |
| (2,1457) | 1:133:A:PRO:HB3 | 1:133:A:PRO:HD2 | 10 | 0.11 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 10 | 0.11 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 19 | 0.11 |
| (2,1432) | 1:149:A:ILE:HB | 1:148:A:GLU:H | 3 | 0.11 |
| (2,1414) | 1:136:A:GLN:HG3 | 1:136:A:GLN:HA | 2 | 0.11 |
| (2,1414) | 1:136:A:GLN:HG3 | 1:136:A:GLN:HA | 7 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1414) | 1:136:A:GLN:HG3 | 1:136:A:GLN:HA | 12 | 0.11 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG21 | 2 | 0.11 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG22 | 9 | 0.11 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG21 | 17 | 0.11 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG23 | 18 | 0.11 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG23 | 20 | 0.11 |
| (2,1406) | 1:39:A:VAL:HG21 | 1:39:A:VAL:HA | 2 | 0.11 |
| (2,1406) | 1:39:A:VAL:HG23 | 1:39:A:VAL:HA | 20 | 0.11 |
| (2,1398) | 1:33:A:VAL:HG11 | 1:74:A:PHE:HD2 | 5 | 0.11 |
| (2,1398) | 1:33:A:VAL:HG11 | 1:74:A:PHE:HD2 | 9 | 0.11 |
| (2,1398) | 1:33:A:VAL:HG11 | 1:74:A:PHE:HD2 | 17 | 0.11 |
| (2,1387) | 1:41:A:VAL:HG21 | 1:41:A:VAL:HA | 2 | 0.11 |
| (2,1387) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HA | 3 | 0.11 |
| (2,1387) | 1:41:A:VAL:HG22 | 1:41:A:VAL:HA | 8 | 0.11 |
| (2,1375) | 1:96:A:ALA:HB3 | 1:98:A:LEU:H | 5 | 0.11 |
| (2,1357) | 1:51:A:ILE:HG23 | 1:34:A:SER:H | 12 | 0.11 |
| (2,1354) | 1:51:A:ILE:HG21 | 1:52:A:ARG:H | 15 | 0.11 |
| (2,1309) | 1:149:A:ILE:HG23 | 1:150:A:ILE:H | 3 | 0.11 |
| (2,1299) | 1:51:A:ILE:HD13 | 1:33:A:VAL:HB | 14 | 0.11 |
| (2,1290) | 1:51:A:ILE:HD12 | 1:49:A:TYR:HB3 | 19 | 0.11 |
| (2,1248) | 1:98:A:LEU:HB3 | 1:99:A:ARG:H | 4 | 0.11 |
| (2,1201) | 1:29:A:LEU:HD22 | 1:29:A:LEU:HD12 | 3 | 0.11 |
| (2,1201) | 1:29:A:LEU:HD21 | 1:29:A:LEU:HD12 | 12 | 0.11 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 12 | 0.11 |
| (2,1174) | 1:45:A:ARG:HG3 | 1:45:A:ARG:H | 20 | 0.11 |
| (2,1165) | 1:45:A:ARG:HB3 | 1:38:A:THR:HG23 | 9 | 0.11 |
| (2,1113) | 1:149:A:ILE:HD11 | 1:149:A:ILE:HB | 14 | 0.11 |
| (2,1107) | 1:12:A:ILE:HD11 | 1:12:A:ILE:HG13 | 1 | 0.11 |
| (2,1100) | 1:11:A:LEU:HB3 | 1:11:A:LEU:H | 1 | 0.11 |
| (2,1088) | 1:139:A:ARG:HD3 | 1:142:A:HIS:H | 17 | 0.11 |
| (2,1085) | 1:139:A:ARG:HD3 | 1:161:A:HIS:HD2 | 16 | 0.11 |
| (2,1072) | 1:159:A:ILE:HD11 | 1:139:A:ARG:HD2 | 7 | 0.11 |
| (2,1056) | 1:159:A:ILE:HD13 | 1:139:A:ARG:H | 8 | 0.11 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG12 | 14 | 0.11 |
| (2,1032) | 1:148:A:GLU:HG3 | 1:67:A:VAL:HG11 | 17 | 0.11 |
| (2,1007) | 1:98:A:LEU:HG | 1:97:A:PHE:HD1 | 3 | 0.11 |
| (2,970) | 1:25:A:PRO:HD3 | 1:24:A:PRO:HB2 | 12 | 0.11 |
| (2,965) | 1:39:A:VAL:HB | 1:46:A:PHE:HD2 | 13 | 0.11 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 8 | 0.11 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 10 | 0.11 |
| (2,801) | 1:118:A:ARG:HB3 | 1:122:A:LEU:H | 13 | 0.11 |
| (2,712) | 1:124:A:GLN:HG3 | 1:123:A:GLU:H | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,712) | 1:124:A:GLN:HG3 | 1:123:A:GLU:H | 13 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 1 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 2 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 5 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 8 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 10 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 11 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 13 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 14 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 16 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 17 | 0.11 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 20 | 0.11 |
| (2,689) | 1:82:A:GLU:HG2 | 1:82:A:GLU:H | 1 | 0.11 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 16 | 0.11 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 20 | 0.11 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 1 | 0.11 |
| (2,681) | 1:159:A:ILE:HG23 | 1:159:A:ILE:HB | 12 | 0.11 |
| (2,681) | 1:159:A:ILE:HG22 | 1:159:A:ILE:HB | 13 | 0.11 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 5 | 0.11 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 11 | 0.11 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 8 | 0.11 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 11 | 0.11 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 6 | 0.11 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 7 | 0.11 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 12 | 0.11 |
| (2,598) | 1:129:A:VAL:HG12 | 1:125:A:PHE:HD1 | 6 | 0.11 |
| (2,570) | 1:143:A:MET:HG2 | 1:151:A:ASP:H | 5 | 0.11 |
| (2,568) | 1:143:A:MET:HG2 | 1:150:A:ILE:HA | 20 | 0.11 |
| (2,549) | 1:143:A:MET:HE3 | 1:150:A:ILE:HG12 | 13 | 0.11 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 3 | 0.11 |
| (2,540) | 1:143:A:MET:HE2 | 1:76:A:TRP:HZ2 | 7 | 0.11 |
| (2,540) | 1:143:A:MET:HE1 | 1:76:A:TRP:HZ2 | 12 | 0.11 |
| (2,538) | 1:143:A:MET:HE3 | 1:151:A:ASP:H | 3 | 0.11 |
| (2,538) | 1:143:A:MET:HE3 | 1:151:A:ASP:H | 14 | 0.11 |
| (2,538) | 1:143:A:MET:HE2 | 1:151:A:ASP:H | 17 | 0.11 |
| (2,530) | 1:143:A:MET:HE2 | 1:150:A:ILE:HA | 10 | 0.11 |
| (2,526) | 1:122:A:LEU:HD12 | 1:75:A:GLU:H | 7 | 0.11 |
| (2,514) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB2 | 5 | 0.11 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 7 | 0.11 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 8 | 0.11 |
| (2,513) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB3 | 12 | 0.11 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 13 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,513) | 1:122:A:LEU:HD12 | 1:122:A:LEU:HB3 | 17 | 0.11 |
| (2,461) | 1:48:A:THR:HG23 | 1:68:A:ARG:HG2 | 13 | 0.11 |
| (2,397) | 1:134:A:LEU:HG | 1:87:A:VAL:H | 11 | 0.11 |
| (2,381) | 1:89:A:VAL:HG13 | 1:81:A:LEU:HD13 | 2 | 0.11 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG21 | 6 | 0.11 |
| (2,368) | 1:82:A:GLU:HA | 1:89:A:VAL:HG23 | 8 | 0.11 |
| (2,357) | 1:89:A:VAL:HG12 | 1:125:A:PHE:HZ | 6 | 0.11 |
| (2,357) | 1:89:A:VAL:HG11 | 1:125:A:PHE:HZ | 17 | 0.11 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 4 | 0.11 |
| (2,333) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB3 | 19 | 0.11 |
| (2,328) | 1:102:A:PRO:HA | 1:102:A:PRO:HG3 | 10 | 0.11 |
| (2,328) | 1:102:A:PRO:HA | 1:102:A:PRO:HG3 | 14 | 0.11 |
| (2,328) | 1:102:A:PRO:HA | 1:102:A:PRO:HG3 | 20 | 0.11 |
| (2,311) | 1:92:A:LEU:HD13 | 1:92:A:LEU:H | 2 | 0.11 |
| (2,311) | 1:92:A:LEU:HD11 | 1:92:A:LEU:H | 10 | 0.11 |
| (2,305) | 1:92:A:LEU:HD13 | 1:75:A:GLU:H | 17 | 0.11 |
| (2,241) | 1:150:A:ILE:HG22 | 1:151:A:ASP:H | 17 | 0.11 |
| (2,213) | 1:158:A:LYS:HB3 | 1:137:A:ASN:HD21 | 3 | 0.11 |
| (2,201) | 1:160:A:ARG:HA | 1:159:A:ILE:HG22 | 12 | 0.11 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 5 | 0.11 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 6 | 0.11 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 20 | 0.11 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 12 | 0.11 |
| (2,145) | 1:66:A:THR:HB | 1:52:A:ARG:HG3 | 13 | 0.11 |
| (2,133) | 1:67:A:VAL:HG13 | 1:66:A:THR:H | 20 | 0.11 |
| (2,125) | 1:127:A:ASN:HA | 1:127:A:ASN:HD22 | 11 | 0.11 |
| (2,96) | 1:152:A:LYS:HA | 1:152:A:LYS:HG3 | 5 | 0.11 |
| (2,96) | 1:152:A:LYS:HA | 1:152:A:LYS:HG3 | 6 | 0.11 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 1 | 0.11 |
| (2,88) | 1:78:A:ARG:HA | 1:77:A:LEU:H | 11 | 0.11 |
| (2,72) | 1:13:A:THR:HA | 1:13:A:THR:HG21 | 15 | 0.11 |
| (2,52) | 1:83:A:ARG:HA | 1:83:A:ARG:HD2 | 4 | 0.11 |
| (2,40) | 1:84:A:GLU:HA | 1:85:A:SER:H | 6 | 0.11 |
| (2,8) | 1:131:A:GLY:HA3 | 1:136:A:GLN:HE21 | 8 | 0.11 |
| (1,43) | 1:146:A:GLN:H | 1:142:A:HIS:O | 1 | 0.11 |
| (1,43) | 1:146:A:GLN:H | 1:142:A:HIS:O | 10 | 0.11 |
| (1,43) | 1:146:A:GLN:H | 1:142:A:HIS:O | 19 | 0.11 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 5 | 0.11 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 12 | 0.11 |
| (2,4983) | 1:80:A:GLU:H | 1:125:A:PHE:HZ | 15 | 0.1 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 13 | 0.1 |
| (2,4967) | 1:76:A:TRP:HE1 | 1:76:A:TRP:HA | 16 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4905) | 1:126:A:ILE:H | 1:51:A:ILE:HG13 | 15 | 0.1 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 12 | 0.1 |
| (2,4884) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE21 | 19 | 0.1 |
| (2,4858) | 1:159:A:ILE:H | 1:138:A:GLU:HA | 1 | 0.1 |
| (2,4848) | 1:77:A:LEU:HD23 | 1:77:A:LEU:H | 7 | 0.1 |
| (2,4844) | 1:73:A:ASP:H | 1:49:A:TYR:HD2 | 2 | 0.1 |
| (2,4838) | 1:65:A:SER:H | 1:55:A:THR:HG22 | 6 | 0.1 |
| (2,4830) | 1:58:A:PRO:HB3 | 1:59:A:ILE:H | 17 | 0.1 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 8 | 0.1 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 10 | 0.1 |
| (2,4784) | 1:23:A:GLY:H | 1:24:A:PRO:HG2 | 11 | 0.1 |
| (2,4769) | 1:9:A:ARG:H | 1:9:A:ARG:HG2 | 13 | 0.1 |
| (2,4762) | 1:26:A:SER:HB3 | 1:26:A:SER:H | 9 | 0.1 |
| (2,4749) | 1:34:A:SER:H | 1:33:A:VAL:HG21 | 12 | 0.1 |
| (2,4691) | 1:121:A:GLY:H | 1:118:A:ARG:HB3 | 20 | 0.1 |
| (2,4681) | 1:141:A:LEU:HD21 | 1:137:A:ASN:H | 1 | 0.1 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 5 | 0.1 |
| (2,4674) | 1:116:A:GLU:HG2 | 1:120:A:GLN:HE22 | 16 | 0.1 |
| (2,4673) | 1:120:A:GLN:HE22 | 1:117:A:GLU:HB3 | 6 | 0.1 |
| (2,4660) | 1:153:A:SER:H | 1:152:A:LYS:HD3 | 7 | 0.1 |
| (2,4634) | 1:106:A:ASP:H | 1:106:A:ASP:HB2 | 5 | 0.1 |
| (2,4618) | 1:85:A:SER:H | 1:86:A:LYS:HG3 | 7 | 0.1 |
| (2,4592) | 1:20:A:ASP:HB3 | 1:21:A:ALA:H | 1 | 0.1 |
| (2,4574) | 1:88:A:VAL:HG22 | 1:90:A:PRO:HD2 | 19 | 0.1 |
| (2,4548) | 1:30:A:GLU:HG3 | 1:31:A:ILE:H | 20 | 0.1 |
| (2,4535) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 19 | 0.1 |
| (2,4504) | 1:77:A:LEU:HD12 | 1:74:A:PHE:HB3 | 3 | 0.1 |
| (2,4454) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 3 | 0.1 |
| (2,4454) | 1:31:A:ILE:HG23 | 1:52:A:ARG:HB2 | 6 | 0.1 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 3 | 0.1 |
| (2,4430) | 1:26:A:SER:HB2 | 1:26:A:SER:HA | 10 | 0.1 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD12 | 10 | 0.1 |
| (2,4392) | 1:78:A:ARG:HG2 | 1:81:A:LEU:HD11 | 12 | 0.1 |
| (2,4363) | 1:5:A:VAL:HG13 | 1:5:A:VAL:HB | 1 | 0.1 |
| (2,4363) | 1:5:A:VAL:HG12 | 1:5:A:VAL:HB | 10 | 0.1 |
| (2,4302) | 1:24:A:PRO:HD2 | 1:27:A:ASN:HD21 | 16 | 0.1 |
| (2,4281) | 1:85:A:SER:HB2 | 1:84:A:GLU:HA | 7 | 0.1 |
| (2,4264) | 1:52:A:ARG:HD3 | 1:53:A:VAL:H | 20 | 0.1 |
| (2,4247) | 1:12:A:ILE:HB | 1:11:A:LEU:HA | 1 | 0.1 |
| (2,4244) | 1:34:A:SER:HB2 | 1:32:A:ASP:HB3 | 12 | 0.1 |
| (2,4243) | 1:34:A:SER:HB3 | 1:32:A:ASP:HB3 | 2 | 0.1 |
| (2,4220) | 1:58:A:PRO:HG2 | 1:58:A:PRO:HB2 | 15 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,4215) | 1:156:A:PRO:HD3 | 1:139:A:ARG:HG2 | 9 | 0.1 |
| (2,4208) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HG2 | 18 | 0.1 |
| (2,4207) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HE3 | 9 | 0.1 |
| (2,4207) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HE2 | 14 | 0.1 |
| (2,4207) | 1:158:A:LYS:HD3 | 1:158:A:LYS:HE2 | 16 | 0.1 |
| (2,4207) | 1:158:A:LYS:HD2 | 1:158:A:LYS:HE3 | 18 | 0.1 |
| (2,4194) | 1:10:A:ARG:HA | 1:10:A:ARG:H | 1 | 0.1 |
| (2,4174) | 1:63:A:LYS:HD3 | 1:55:A:THR:H | 17 | 0.1 |
| (2,4127) | 1:149:A:ILE:HG21 | 1:149:A:ILE:HB | 4 | 0.1 |
| (2,4127) | 1:149:A:ILE:HG22 | 1:149:A:ILE:HB | 5 | 0.1 |
| (2,4127) | 1:149:A:ILE:HG23 | 1:149:A:ILE:HB | 11 | 0.1 |
| (2,4103) | 1:51:A:ILE:HG21 | 1:60:A:PHE:HE2 | 18 | 0.1 |
| (2,4098) | 1:59:A:ILE:HG22 | 1:60:A:PHE:HB3 | 2 | 0.1 |
| (2,4078) | 1:152:A:LYS:HB2 | 1:152:A:LYS:HD2 | 5 | 0.1 |
| (2,4052) | 1:29:A:LEU:HD21 | 1:57:A:LEU:HG | 5 | 0.1 |
| (2,4050) | 1:29:A:LEU:HD13 | 1:57:A:LEU:HG | 3 | 0.1 |
| (2,4050) | 1:29:A:LEU:HD13 | 1:57:A:LEU:HG | 19 | 0.1 |
| (2,4040) | 1:45:A:ARG:HD3 | 1:38:A:THR:HG21 | 3 | 0.1 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD11 | 1 | 0.1 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 3 | 0.1 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD12 | 4 | 0.1 |
| (2,4002) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HD13 | 13 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 1 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 3 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD12 | 5 | 0.1 |
| (2,4001) | 1:149:A:ILE:HG12 | 1:149:A:ILE:HD13 | 11 | 0.1 |
| (2,3996) | 1:101:A:LEU:HD21 | 1:101:A:LEU:HG | 4 | 0.1 |
| (2,3996) | 1:101:A:LEU:HD22 | 1:101:A:LEU:HG | 19 | 0.1 |
| (2,3988) | 1:26:A:SER:HB3 | 1:27:A:ASN:HB3 | 13 | 0.1 |
| (2,3987) | 1:26:A:SER:HB3 | 1:27:A:ASN:HB3 | 13 | 0.1 |
| (2,3974) | 1:3:A:GLU:HG2 | 1:3:A:GLU:HB3 | 19 | 0.1 |
| (2,3952) | 1:114:A:PHE:HB2 | 1:117:A:GLU:HB2 | 12 | 0.1 |
| (2,3952) | 1:114:A:PHE:HB2 | 1:117:A:GLU:HB2 | 13 | 0.1 |
| (2,3916) | 1:119:A:LYS:HE2 | 1:120:A:GLN:HB3 | 13 | 0.1 |
| (2,3908) | 1:119:A:LYS:HD2 | 1:119:A:LYS:H | 8 | 0.1 |
| (2,3856) | 1:124:A:GLN:HA | 1:124:A:GLN:HG2 | 16 | 0.1 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 15 | 0.1 |
| (2,3854) | 1:124:A:GLN:HB3 | 1:125:A:PHE:H | 19 | 0.1 |
| (2,3819) | 1:128:A:LYS:HD2 | 1:125:A:PHE:H | 1 | 0.1 |
| (2,3795) | 1:130:A:ALA:HB1 | 1:131:A:GLY:H | 16 | 0.1 |
| (2,3770) | 1:126:A:ILE:HG21 | 1:123:A:GLU:H | 13 | 0.1 |
| (2,3718) | 1:25:A:PRO:HD2 | 1:24:A:PRO:HB2 | 13 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,3717) | 1:25:A:PRO:HD3 | 1:25:A:PRO:HG3 | 6 | 0.1 |
| (2,3714) | 1:15:A:PRO:HD3 | 1:14:A:LYS:HG3 | 14 | 0.1 |
| (2,3703) | 1:92:A:LEU:HD12 | 1:78:A:ARG:HB2 | 20 | 0.1 |
| (2,3612) | 1:32:A:ASP:HB2 | 1:52:A:ARG:HD3 | 14 | 0.1 |
| (2,3584) | 1:108:A:GLY:H | 1:109:A:ILE:HA | 5 | 0.1 |
| (2,3584) | 1:108:A:GLY:H | 1:109:A:ILE:HA | 6 | 0.1 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 4 | 0.1 |
| (2,3536) | 1:100:A:GLN:HE22 | 1:100:A:GLN:HB3 | 5 | 0.1 |
| (2,3530) | 1:2:A:ALA:H | 1:1:A:THR:HB | 9 | 0.1 |
| (2,3523) | 1:162:A:ALA:HB2 | 1:162:A:ALA:H | 19 | 0.1 |
| (2,3522) | 1:161:A:HIS:HA | 1:162:A:ALA:H | 11 | 0.1 |
| (2,3520) | 1:161:A:HIS:HB3 | 1:162:A:ALA:H | 14 | 0.1 |
| (2,3506) | 1:37:A:GLN:HE22 | 1:39:A:VAL:HG23 | 6 | 0.1 |
| (2,3419) | 1:124:A:GLN:HE21 | 1:123:A:GLU:HG3 | 10 | 0.1 |
| (2,3406) | 1:123:A:GLU:H | 1:124:A:GLN:HA | 14 | 0.1 |
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 8 | 0.1 |
| (2,3347) | 1:107:A:ASP:H | 1:105:A:GLY:HA2 | 13 | 0.1 |
| (2,3305) | 1:84:A:GLU:HG2 | 1:84:A:GLU:H | 6 | 0.1 |
| (2,3301) | 1:87:A:VAL:HG23 | 1:81:A:LEU:H | 17 | 0.1 |
| (2,3252) | 1:62:A:LEU:HD23 | 1:64:A:GLU:H | 18 | 0.1 |
| (2,3248) | 1:129:A:VAL:HG23 | 1:132:A:HIS:H | 3 | 0.1 |
| (2,3199) | 1:39:A:VAL:HG12 | 1:46:A:PHE:H | 7 | 0.1 |
| (2,3036) | 1:13:A:THR:H | 1:12:A:ILE:HB | 7 | 0.1 |
| (2,3024) | 1:11:A:LEU:HD13 | 1:10:A:ARG:H | 10 | 0.1 |
| (2,3021) | 1:8:A:THR:H | 1:9:A:ARG:H | 7 | 0.1 |
| (2,3012) | 1:8:A:THR:H | 1:7:A:ASP:HB2 | 16 | 0.1 |
| (2,2997) | 1:6:A:ALA:H | 1:5:A:VAL:HB | 7 | 0.1 |
| (2,2851) | 1:99:A:ARG:HB2 | 1:101:A:LEU:H | 18 | 0.1 |
| (2,2783) | 1:41:A:VAL:H | 1:45:A:ARG:HD3 | 1 | 0.1 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 2 | 0.1 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 11 | 0.1 |
| (2,2769) | 1:45:A:ARG:H | 1:42:A:GLY:H | 19 | 0.1 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 1 | 0.1 |
| (2,2724) | 1:19:A:ASN:HB3 | 1:19:A:ASN:HD22 | 10 | 0.1 |
| (2,2716) | 1:35:A:ASN:HD22 | 1:35:A:ASN:HA | 16 | 0.1 |
| (2,2700) | 1:37:A:GLN:HE22 | 1:39:A:VAL:H | 4 | 0.1 |
| (2,2672) | 1:102:A:PRO:HB2 | 1:103:A:PHE:H | 12 | 0.1 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 7 | 0.1 |
| (2,2624) | 1:148:A:GLU:H | 1:147:A:ASP:HB3 | 11 | 0.1 |
| (2,2535) | 1:85:A:SER:HB3 | 1:85:A:SER:H | 15 | 0.1 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 2 | 0.1 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 3 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 12 | 0.1 |
| (2,2520) | 1:92:A:LEU:H | 1:125:A:PHE:HE1 | 13 | 0.1 |
| (2,2444) | 1:67:A:VAL:HG11 | 1:68:A:ARG:H | 17 | 0.1 |
| (2,2423) | 1:21:A:ALA:H | 1:22:A:TYR:HD1 | 15 | 0.1 |
| (2,2405) | 1:109:A:ILE:HB | 1:115:A:ILE:HA | 11 | 0.1 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 2 | 0.1 |
| (2,2386) | 1:90:A:PRO:HB2 | 1:91:A:PRO:HD3 | 16 | 0.1 |
| (2,2249) | 1:129:A:VAL:HA | 1:126:A:ILE:HD11 | 1 | 0.1 |
| (2,2182) | 1:145:A:LEU:HB3 | 1:53:A:VAL:HG13 | 5 | 0.1 |
| (2,2153) | 1:36:A:PRO:HG3 | 1:47:A:THR:HG22 | 7 | 0.1 |
| (2,2145) | 1:33:A:VAL:HB | 1:123:A:GLU:HA | 14 | 0.1 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 3 | 0.1 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 13 | 0.1 |
| (2,2124) | 1:27:A:ASN:HA | 1:57:A:LEU:HG | 19 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG22 | 1 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG22 | 3 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 4 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG22 | 9 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG21 | 13 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 15 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG22 | 16 | 0.1 |
| (2,2075) | 1:1:A:THR:HB | 1:1:A:THR:HG23 | 20 | 0.1 |
| (2,2064) | 1:33:A:VAL:HB | 1:123:A:GLU:H | 4 | 0.1 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 10 | 0.1 |
| (2,1944) | 1:144:A:PHE:HA | 1:144:A:PHE:HZ | 14 | 0.1 |
| (2,1915) | 1:134:A:LEU:HD23 | 1:86:A:LYS:HB3 | 4 | 0.1 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 2 | 0.1 |
| (2,1875) | 1:103:A:PHE:HB3 | 1:104:A:ARG:HA | 9 | 0.1 |
| (2,1859) | 1:98:A:LEU:HB3 | 1:98:A:LEU:HD13 | 1 | 0.1 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG22 | 13 | 0.1 |
| (2,1828) | 1:88:A:VAL:HA | 1:88:A:VAL:HG21 | 15 | 0.1 |
| (2,1790) | 1:83:A:ARG:HD3 | 1:83:A:ARG:H | 6 | 0.1 |
| (2,1784) | 1:83:A:ARG:HG3 | 1:84:A:GLU:H | 10 | 0.1 |
| (2,1769) | 1:75:A:GLU:HG2 | 1:76:A:TRP:H | 8 | 0.1 |
| (2,1723) | 1:63:A:LYS:HA | 1:55:A:THR:H | 1 | 0.1 |
| (2,1617) | 1:50:A:GLU:HG2 | 1:67:A:VAL:HG22 | 18 | 0.1 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 7 | 0.1 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 11 | 0.1 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 13 | 0.1 |
| (2,1609) | 1:50:A:GLU:HG3 | 1:35:A:ASN:HB3 | 14 | 0.1 |
| (2,1589) | 1:141:A:LEU:HB2 | 1:141:A:LEU:HD12 | 4 | 0.1 |
| (2,1583) | 1:141:A:LEU:HD13 | 1:138:A:GLU:H | 7 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1522) | 1:57:A:LEU:HD13 | 1:60:A:PHE:HZ | 9 | 0.1 |
| (2,1511) | 1:59:A:ILE:HG23 | 1:57:A:LEU:HG | 13 | 0.1 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 5 | 0.1 |
| (2,1450) | 1:90:A:PRO:HD3 | 1:128:A:LYS:HB3 | 13 | 0.1 |
| (2,1411) | 1:39:A:VAL:HB | 1:39:A:VAL:HG21 | 14 | 0.1 |
| (2,1406) | 1:39:A:VAL:HG22 | 1:39:A:VAL:HA | 10 | 0.1 |
| (2,1375) | 1:96:A:ALA:HB1 | 1:98:A:LEU:H | 9 | 0.1 |
| (2,1341) | 1:57:A:LEU:HB2 | 1:59:A:ILE:HG22 | 9 | 0.1 |
| (2,1339) | 1:59:A:ILE:HG21 | 1:58:A:PRO:HD3 | 12 | 0.1 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG21 | 1 | 0.1 |
| (2,1322) | 1:149:A:ILE:HG13 | 1:149:A:ILE:HG23 | 6 | 0.1 |
| (2,1310) | 1:149:A:ILE:HG23 | 1:148:A:GLU:H | 9 | 0.1 |
| (2,1249) | 1:101:A:LEU:HB3 | 1:101:A:LEU:H | 10 | 0.1 |
| (2,1244) | 1:81:A:LEU:HD21 | 1:135:A:ALA:HB1 | 1 | 0.1 |
| (2,1203) | 1:29:A:LEU:HD21 | 1:31:A:ILE:HD12 | 1 | 0.1 |
| (2,1185) | 1:29:A:LEU:HB2 | 1:31:A:ILE:HD11 | 10 | 0.1 |
| (2,1113) | 1:149:A:ILE:HD12 | 1:149:A:ILE:HB | 16 | 0.1 |
| (2,1042) | 1:149:A:ILE:HA | 1:149:A:ILE:HG12 | 18 | 0.1 |
| (2,1040) | 1:149:A:ILE:HG12 | 1:148:A:GLU:H | 12 | 0.1 |
| (2,994) | 1:102:A:PRO:HD3 | 1:101:A:LEU:HD23 | 20 | 0.1 |
| (2,918) | 1:109:A:ILE:HG22 | 1:114:A:PHE:HE2 | 11 | 0.1 |
| (2,896) | 1:113:A:ASN:HB2 | 1:117:A:GLU:HG2 | 20 | 0.1 |
| (2,754) | 1:119:A:LYS:HA | 1:122:A:LEU:HD21 | 2 | 0.1 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 3 | 0.1 |
| (2,707) | 1:124:A:GLN:HB3 | 1:124:A:GLN:HG2 | 19 | 0.1 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 6 | 0.1 |
| (2,687) | 1:82:A:GLU:HG2 | 1:83:A:ARG:H | 19 | 0.1 |
| (2,673) | 1:55:A:THR:HG22 | 1:62:A:LEU:H | 12 | 0.1 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 10 | 0.1 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 14 | 0.1 |
| (2,647) | 1:128:A:LYS:HB2 | 1:130:A:ALA:H | 15 | 0.1 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 5 | 0.1 |
| (2,645) | 1:128:A:LYS:HA | 1:130:A:ALA:H | 9 | 0.1 |
| (2,641) | 1:128:A:LYS:HG2 | 1:129:A:VAL:H | 17 | 0.1 |
| (2,521) | 1:122:A:LEU:HD13 | 1:49:A:TYR:HD2 | 14 | 0.1 |
| (2,514) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB2 | 16 | 0.1 |
| (2,513) | 1:122:A:LEU:HD12 | 1:122:A:LEU:HB3 | 2 | 0.1 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 4 | 0.1 |
| (2,513) | 1:122:A:LEU:HD12 | 1:122:A:LEU:HB3 | 9 | 0.1 |
| (2,513) | 1:122:A:LEU:HD11 | 1:122:A:LEU:HB3 | 18 | 0.1 |
| (2,513) | 1:122:A:LEU:HD13 | 1:122:A:LEU:HB3 | 19 | 0.1 |
| (2,406) | 1:87:A:VAL:HB | 1:87:A:VAL:HG22 | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,406) | 1:87:A:VAL:HB | 1:87:A:VAL:HG21 | 14 | 0.1 |
| (2,311) | 1:92:A:LEU:HD12 | 1:92:A:LEU:H | 17 | 0.1 |
| (2,305) | 1:92:A:LEU:HD12 | 1:75:A:GLU:H | 1 | 0.1 |
| (2,291) | 1:92:A:LEU:HD23 | 1:93:A:PRO:HD3 | 15 | 0.1 |
| (2,246) | 1:150:A:ILE:HG12 | 1:150:A:ILE:H | 4 | 0.1 |
| (2,193) | 1:159:A:ILE:HA | 1:160:A:ARG:HD3 | 14 | 0.1 |
| (1,21) | 1:74:A:PHE:H | 1:70:A:ARG:O | 11 | 0.1 |

# 10 Dihedral-angle violation analysis

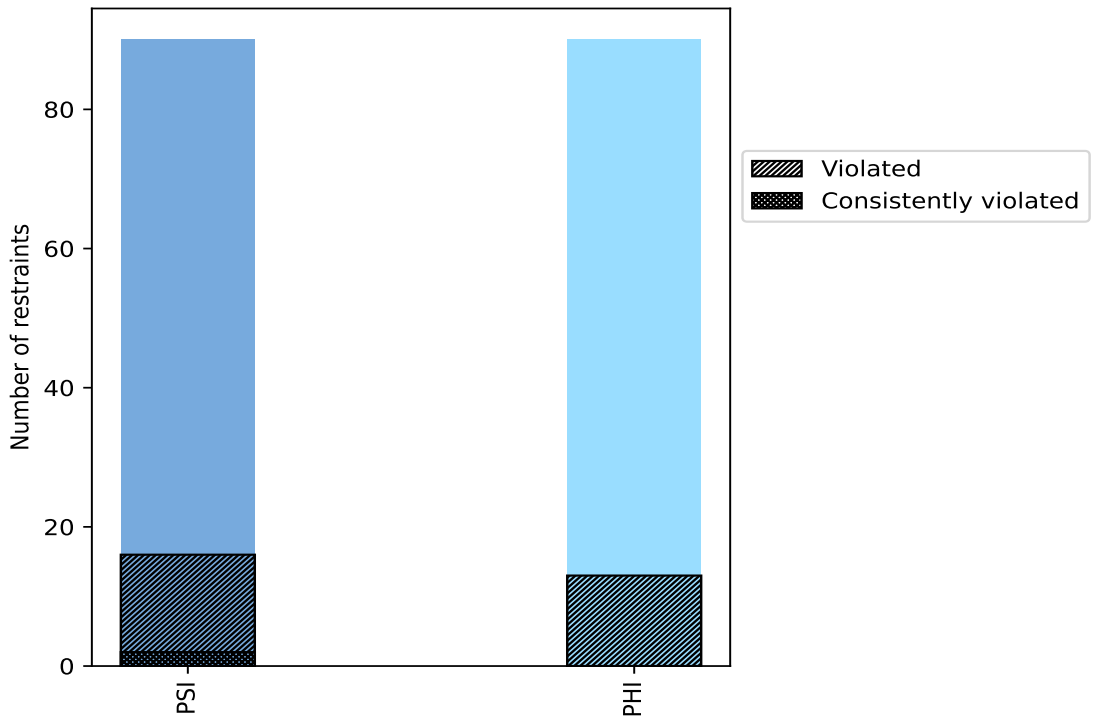
## 10.1 Summary of dihedral-angle violations

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 | 90 | 50.0 | 16 | 17.8 | 8.9 | 2 | 2.2 | 1.1 |
| PHI | 90 | 50.0 | 13 | 14.4 | 7.2 | 0 | 0.0 | 0.0 |
| Total | 180 | 100.0 | 29 | 16.1 | 16.1 | 2 | 1.1 | 1.1 |

[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



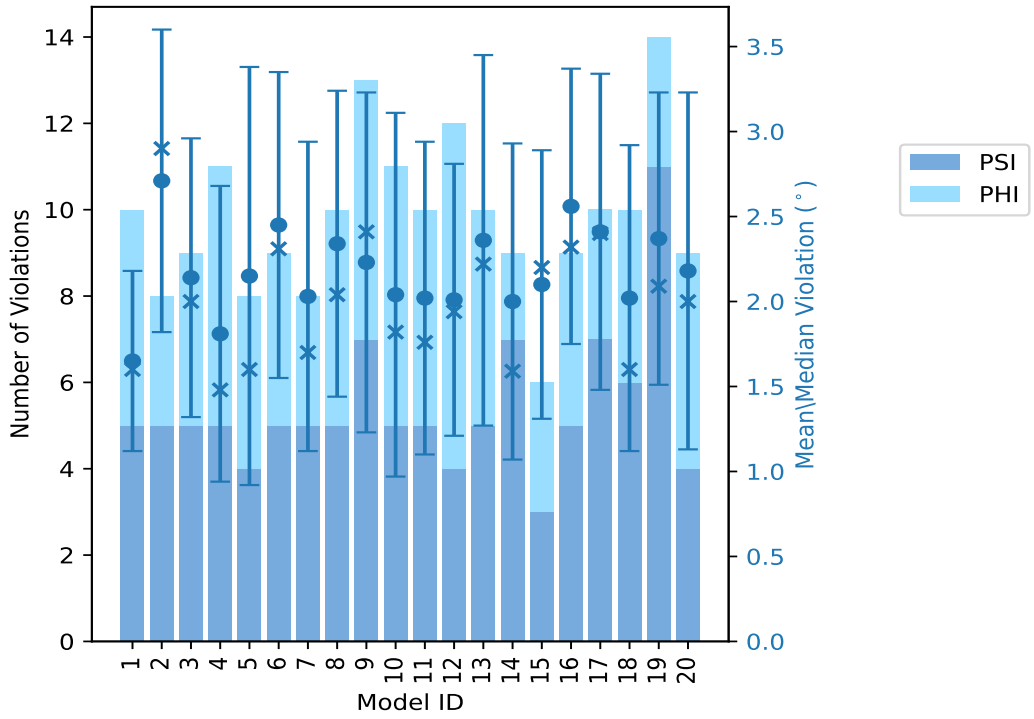

Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 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 | 5 | 5 | 10 | 1.65 | 3.07 | 0.53 | 1.6 |
| 2 | 5 | 3 | 8 | 2.71 | 3.69 | 0.89 | 2.9 |
| 3 | 5 | 4 | 9 | 2.14 | 3.44 | 0.82 | 2.0 |
| 4 | 5 | 6 | 11 | 1.81 | 3.75 | 0.87 | 1.48 |
| 5 | 4 | 4 | 8 | 2.15 | 4.85 | 1.23 | 1.6 |
| 6 | 5 | 4 | 9 | 2.45 | 4.12 | 0.9 | 2.31 |
| 7 | 5 | 3 | 8 | 2.03 | 4.08 | 0.91 | 1.7 |
| 8 | 5 | 5 | 10 | 2.34 | 4.74 | 0.9 | 2.04 |
| 9 | 7 | 6 | 13 | 2.23 | 4.74 | 1.0 | 2.41 |
| 10 | 5 | 6 | 11 | 2.04 | 4.93 | 1.07 | 1.82 |
| 11 | 5 | 5 | 10 | 2.02 | 4.18 | 0.92 | 1.76 |
| 12 | 4 | 8 | 12 | 2.01 | 3.46 | 0.8 | 1.94 |
| 13 | 5 | 5 | 10 | 2.36 | 4.85 | 1.09 | 2.22 |
| 14 | 7 | 2 | 9 | 2.0 | 3.91 | 0.93 | 1.59 |
| 15 | 3 | 3 | 6 | 2.1 | 3.45 | 0.79 | 2.2 |
| 16 | 5 | 4 | 9 | 2.56 | 4.62 | 0.81 | 2.32 |
| 17 | 7 | 3 | 10 | 2.41 | 4.39 | 0.93 | 2.4 |
| 18 | 6 | 4 | 10 | 2.02 | 3.95 | 0.9 | 1.6 |
| 19 | 11 | 3 | 14 | 2.37 | 4.2 | 0.86 | 2.09 |
| 20 | 4 | 5 | 9 | 2.18 | 4.64 | 1.05 | 2.0 |

### 10.2.1 Bar graph : Dihedral 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

## 10.3 Dihedral-angle violation statistics for the ensemble

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

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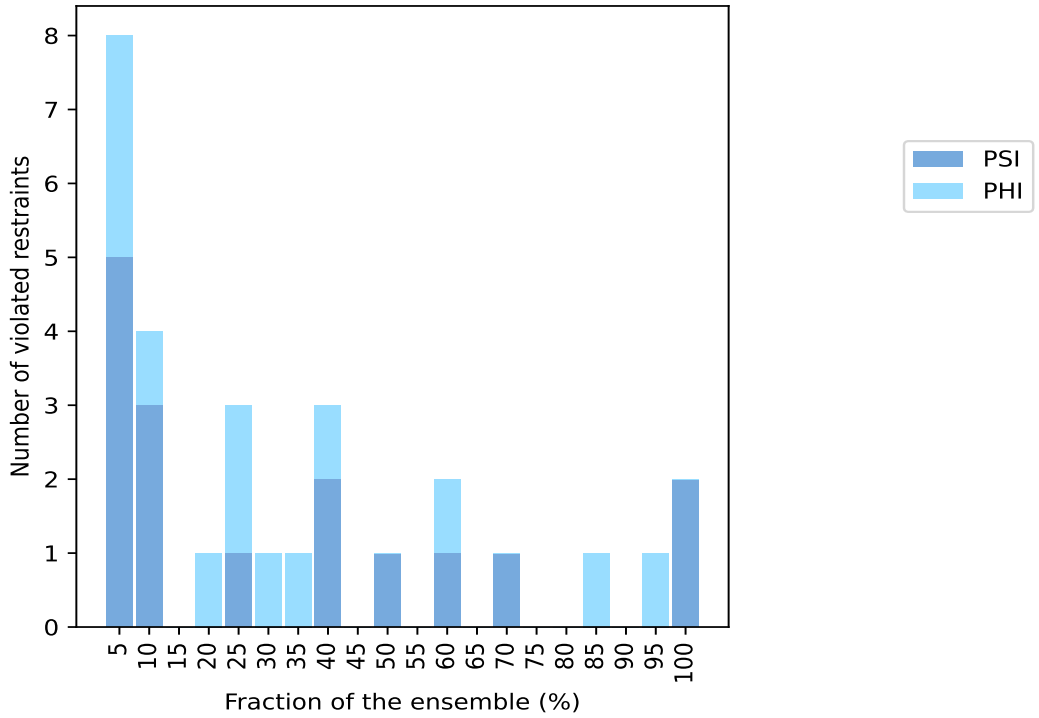
| Number of violated restraints | | | Fraction of the ensemble | |
|---|---|---|---|---|
| PSI | PHI | Total | Count[1] | % |
| 1 | 1 | 2 | 12 | 60.0 |
| 0 | 0 | 0 | 13 | 65.0 |
| 1 | 0 | 1 | 14 | 70.0 |
| 0 | 0 | 0 | 15 | 75.0 |
| 0 | 0 | 0 | 16 | 80.0 |
| 0 | 1 | 1 | 17 | 85.0 |
| 0 | 0 | 0 | 18 | 90.0 |
| 0 | 1 | 1 | 19 | 95.0 |
| 2 | 0 | 2 | 20 | 100.0 |

[1] Number of models with violations

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

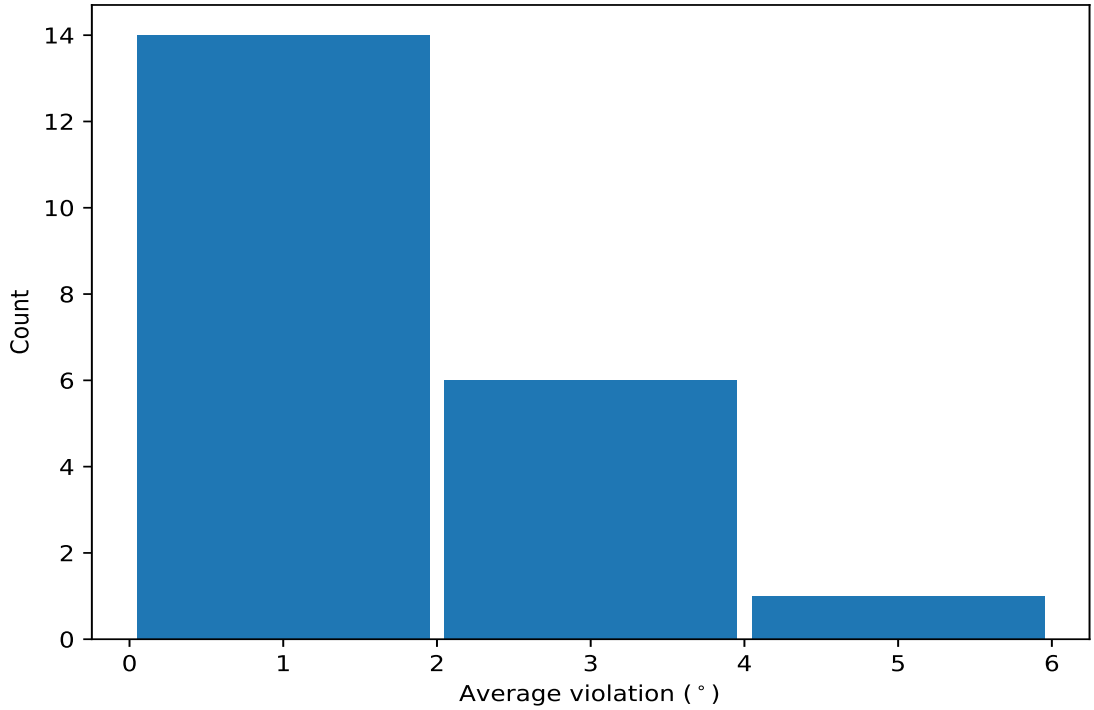



## 10.4 Most violated dihedral-angle restraints in the ensemble

### 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 |
|---|---|---|---|---|---|---|---|---|
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 20 | 4.12 | 0.57 | 4.1 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 20 | 2.39 | 0.65 | 2.3 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 19 | 2.76 | 0.51 | 2.65 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 17 | 2.16 | 0.61 | 2.12 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 14 | 2.13 | 0.63 | 2.1 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 12 | 2.02 | 0.61 | 2.09 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 12 | 1.69 | 0.37 | 1.77 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 10 | 1.84 | 0.67 | 1.73 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 8 | 2.39 | 0.87 | 2.38 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 8 | 1.89 | 0.5 | 1.79 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 8 | 1.3 | 0.18 | 1.27 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 7 | 1.64 | 0.55 | 1.49 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 6 | 1.39 | 0.19 | 1.4 |
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 5 | 1.4 | 0.31 | 1.26 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 5 | 1.3 | 0.18 | 1.21 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 5 | 1.21 | 0.2 | 1.15 |
| (1,165) | 1:143:A:MET:C | 1:144:A:PHE:N | 1:144:A:PHE:CA | 1:144:A:PHE:C | 4 | 1.42 | 0.42 | 1.28 |
| (1,117) | 1:117:A:GLU:C | 1:118:A:ARG:N | 1:118:A:ARG:CA | 1:118:A:ARG:C | 2 | 1.56 | 0.36 | 1.56 |
| (1,108) | 1:113:A:ASN:N | 1:113:A:ASN:CA | 1:113:A:ASN:C | 1:114:A:PHE:N | 2 | 1.49 | 0.09 | 1.49 |
| (1,22) | 1:39:A:VAL:N | 1:39:A:VAL:CA | 1:39:A:VAL:C | 1:40:A:GLY:N | 2 | 1.3 | 0.12 | 1.3 |

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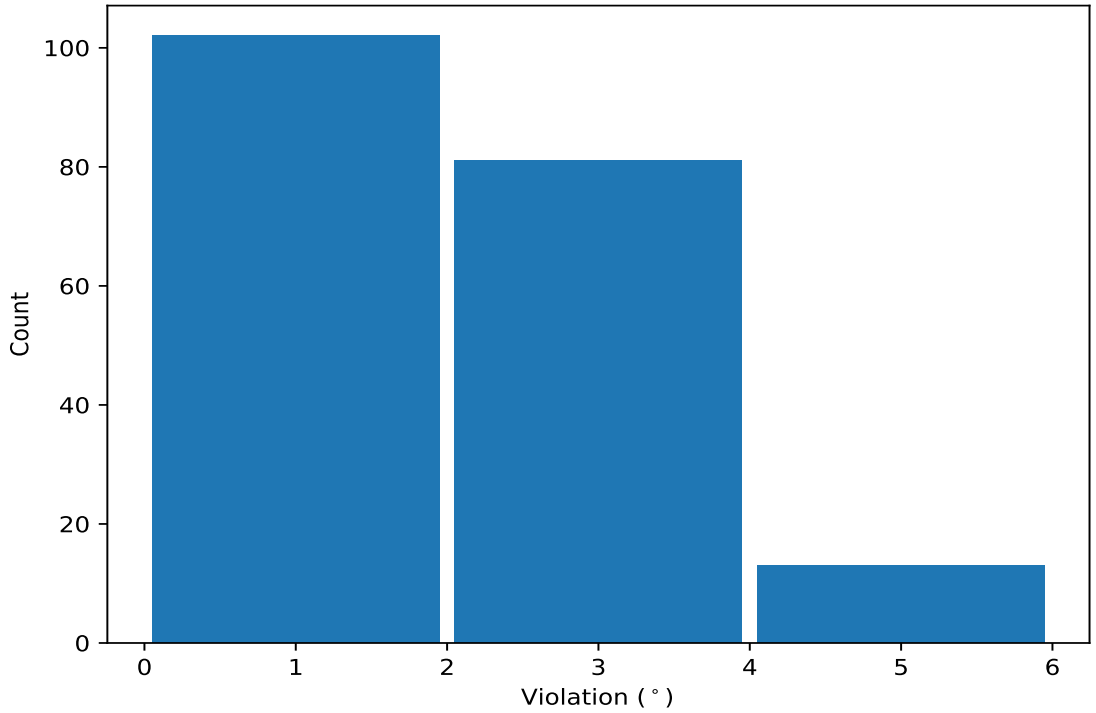
| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,104) | 1:93:A:PRO:N | 1:93:A:PRO:CA | 1:93:A:PRO:C | 1:94:A:GLY:N | 2 | 1.25 | 0.12 | 1.25 |

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

## 10.5 All violated dihedral-angle restraints

### 10.5.1 Histogram : Distribution of violations

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 (°) |
|---|---|---|---|---|---|---|
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 10 | 4.93 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 5 | 4.85 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 13 | 4.85 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 8 | 4.74 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 9 | 4.74 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 20 | 4.64 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 16 | 4.62 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 17 | 4.39 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 19 | 4.2 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 11 | 4.18 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 6 | 4.12 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 7 | 4.08 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 19 | 4.0 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 18 | 3.95 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 14 | 3.91 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 4 | 3.75 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 2 | 3.69 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 2 | 3.55 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 4 | 3.5 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 12 | 3.46 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 15 | 3.45 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 6 | 3.45 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 3 | 3.44 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 2 | 3.43 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 13 | 3.29 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 3 | 3.27 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 14 | 3.27 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 2 | 3.22 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 6 | 3.18 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 5 | 3.16 |
| (1,140) | 1:129:A:VAL:N | 1:129:A:VAL:CA | 1:129:A:VAL:C | 1:130:A:ALA:N | 1 | 3.07 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 18 | 3.07 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 20 | 3.04 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 17 | 3.02 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 11 | 3.01 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 9 | 3.01 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 9 | 3.0 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 8 | 2.99 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 17 | 2.98 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 19 | 2.96 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 19 | 2.93 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 12 | 2.93 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 13 | 2.92 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 16 | 2.92 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 10 | 2.92 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 18 | 2.91 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 3 | 2.9 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 17 | 2.85 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 12 | 2.85 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 7 | 2.83 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 9 | 2.7 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 13 | 2.66 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 16 | 2.65 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 8 | 2.61 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 19 | 2.59 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 2 | 2.59 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 2 | 2.53 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 12 | 2.53 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 9 | 2.52 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 5 | 2.51 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 9 | 2.45 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 16 | 2.44 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 6 | 2.43 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 12 | 2.42 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 15 | 2.42 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 9 | 2.41 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 17 | 2.41 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 10 | 2.41 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 11 | 2.39 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 17 | 2.39 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 20 | 2.37 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 16 | 2.32 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 12 | 2.32 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 16 | 2.31 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 6 | 2.31 |
| (1,172) | 1:151:A:ASP:N | 1:151:A:ASP:CA | 1:151:A:ASP:C | 1:152:A:LYS:N | 19 | 2.29 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 15 | 2.28 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 14 | 2.27 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 16 | 2.27 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 20 | 2.26 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 13 | 2.23 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 13 | 2.21 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 3 | 2.2 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 10 | 2.19 |
| (1,142) | 1:130:A:ALA:N | 1:130:A:ALA:CA | 1:130:A:ALA:C | 1:131:A:GLY:N | 19 | 2.13 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 15 | 2.12 |
| (1,165) | 1:143:A:MET:C | 1:144:A:PHE:N | 1:144:A:PHE:CA | 1:144:A:PHE:C | 11 | 2.11 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 8 | 2.09 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 19 | 2.06 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 8 | 2.06 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 9 | 2.03 |
| (1,37) | 1:49:A:TYR:C | 1:50:A:GLU:N | 1:50:A:GLU:CA | 1:50:A:GLU:C | 8 | 2.02 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 20 | 2.0 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 3 | 2.0 |
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 19 | 1.98 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 17 | 1.98 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 7 | 1.98 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 6 | 1.98 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 11 | 1.98 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 19 | 1.96 |
| (1,117) | 1:117:A:GLU:C | 1:118:A:ARG:N | 1:118:A:ARG:CA | 1:118:A:ARG:C | 1 | 1.93 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 8 | 1.91 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 14 | 1.9 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 18 | 1.87 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 10 | 1.86 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 5 | 1.85 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 19 | 1.84 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 10 | 1.82 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 8 | 1.81 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 7 | 1.79 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 16 | 1.77 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 18 | 1.76 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 16 | 1.75 |
| (1,180) | 1:155:A:THR:N | 1:155:A:THR:CA | 1:155:A:THR:C | 1:156:A:PRO:N | 17 | 1.74 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 6 | 1.73 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 1 | 1.7 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 8 | 1.69 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 13 | 1.65 |
| (1,23) | 1:39:A:VAL:C | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1 | 1.64 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 19 | 1.61 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 7 | 1.6 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 1 | 1.6 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 3 | 1.6 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 1 | 1.59 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 14 | 1.59 |
| (1,108) | 1:113:A:ASN:N | 1:113:A:ASN:CA | 1:113:A:ASN:C | 1:114:A:PHE:N | 14 | 1.58 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 6 | 1.57 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 4 | 1.57 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 12 | 1.57 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 2 | 1.55 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 13 | 1.53 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 11 | 1.53 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 4 | 1.52 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 8 | 1.51 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 9 | 1.5 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 12 | 1.49 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 4 | 1.49 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 4 | 1.48 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 20 | 1.48 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 11 | 1.46 |
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 4 | 1.44 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 20 | 1.44 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 4 | 1.44 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 18 | 1.43 |
| (1,22) | 1:39:A:VAL:N | 1:39:A:VAL:CA | 1:39:A:VAL:C | 1:40:A:GLY:N | 3 | 1.42 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 19 | 1.41 |
| (1,108) | 1:113:A:ASN:N | 1:113:A:ASN:CA | 1:113:A:ASN:C | 1:114:A:PHE:N | 7 | 1.4 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 11 | 1.4 |
| (1,165) | 1:143:A:MET:C | 1:144:A:PHE:N | 1:144:A:PHE:CA | 1:144:A:PHE:C | 4 | 1.39 |
| (1,104) | 1:93:A:PRO:N | 1:93:A:PRO:CA | 1:93:A:PRO:C | 1:94:A:GLY:N | 10 | 1.37 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 7 | 1.37 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 18 | 1.37 |
| (1,93) | 1:82:A:GLU:C | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 5 | 1.36 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 1 | 1.36 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 3 | 1.36 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 9 | 1.36 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 10 | 1.34 |
| (1,57) | 1:64:A:GLU:C | 1:65:A:SER:N | 1:65:A:SER:CA | 1:65:A:SER:C | 18 | 1.33 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 20 | 1.28 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 6 | 1.26 |
| (1,176) | 1:153:A:SER:N | 1:153:A:SER:CA | 1:153:A:SER:C | 1:154:A:TYR:N | 18 | 1.26 |
| (1,14) | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 1:35:A:ASN:N | 5 | 1.26 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 10 | 1.25 |
| (1,146) | 1:133:A:PRO:N | 1:133:A:PRO:CA | 1:133:A:PRO:C | 1:134:A:LEU:N | 19 | 1.24 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1 | 1.23 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 1 | 1.22 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 10 | 1.22 |
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 18 | 1.21 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 7 | 1.21 |
| (1,117) | 1:117:A:GLU:C | 1:118:A:ARG:N | 1:118:A:ARG:CA | 1:118:A:ARG:C | 12 | 1.2 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 12 | 1.19 |
| (1,54) | 1:59:A:ILE:N | 1:59:A:ILE:CA | 1:59:A:ILE:C | 1:60:A:PHE:N | 17 | 1.19 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 14 | 1.19 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 15 | 1.18 |
| (1,165) | 1:143:A:MET:C | 1:144:A:PHE:N | 1:144:A:PHE:CA | 1:144:A:PHE:C | 13 | 1.17 |
| (1,22) | 1:39:A:VAL:N | 1:39:A:VAL:CA | 1:39:A:VAL:C | 1:40:A:GLY:N | 4 | 1.17 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 1 | 1.16 |
| (1,94) | 1:83:A:ARG:N | 1:83:A:ARG:CA | 1:83:A:ARG:C | 1:84:A:GLU:N | 14 | 1.15 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 2 | 1.15 |
| (1,104) | 1:93:A:PRO:N | 1:93:A:PRO:CA | 1:93:A:PRO:C | 1:94:A:GLY:N | 11 | 1.14 |
| (1,39) | 1:50:A:GLU:C | 1:51:A:ILE:N | 1:51:A:ILE:CA | 1:51:A:ILE:C | 9 | 1.14 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 9 | 1.14 |
| (1,178) | 1:154:A:TYR:N | 1:154:A:TYR:CA | 1:154:A:TYR:C | 1:155:A:THR:N | 15 | 1.13 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 4 | 1.12 |
| (1,47) | 1:54:A:LYS:C | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 17 | 1.12 |
| (1,174) | 1:152:A:LYS:N | 1:152:A:LYS:CA | 1:152:A:LYS:C | 1:153:A:SER:N | 14 | 1.11 |
| (1,59) | 1:65:A:SER:C | 1:66:A:THR:N | 1:66:A:THR:CA | 1:66:A:THR:C | 12 | 1.11 |
| (1,48) | 1:55:A:THR:N | 1:55:A:THR:CA | 1:55:A:THR:C | 1:56:A:ASN:N | 5 | 1.11 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 3 | 1.11 |
| (1,27) | 1:43:A:ARG:C | 1:44:A:GLY:N | 1:44:A:GLY:CA | 1:44:A:GLY:C | 5 | 1.1 |
| (1,143) | 1:131:A:GLY:C | 1:132:A:HIS:N | 1:132:A:HIS:CA | 1:132:A:HIS:C | 20 | 1.09 |
| (1,33) | 1:47:A:THR:C | 1:48:A:THR:N | 1:48:A:THR:CA | 1:48:A:THR:C | 10 | 1.09 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 13 | 1.04 |
| (1,165) | 1:143:A:MET:C | 1:144:A:PHE:N | 1:144:A:PHE:CA | 1:144:A:PHE:C | 12 | 1.03 |
| (1,24) | 1:40:A:GLY:N | 1:40:A:GLY:CA | 1:40:A:GLY:C | 1:41:A:VAL:N | 11 | 1.03 |
| (1,13) | 1:33:A:VAL:C | 1:34:A:SER:N | 1:34:A:SER:CA | 1:34:A:SER:C | 9 | 1.02 |